

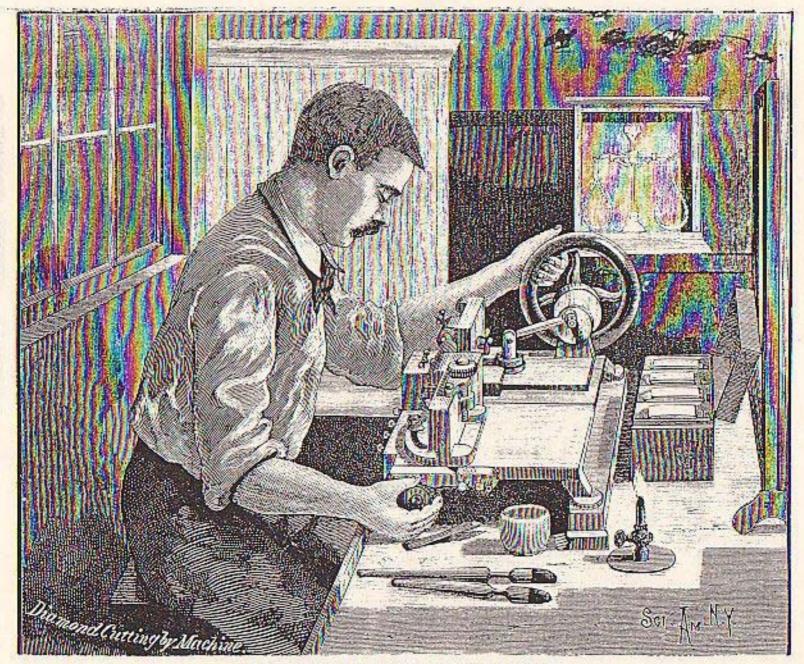
Cabinet Portrait.

A. N. HARDY,

22 WINTER ST.

Model of Diamond , Outling Machine. In Patrick Office at Hashington De

Charles Mo Field 487 - Istanon St. Melrese Mass.



THE FIELD DIAMOND CUTTING MACHINE,
DIAMOND CUTTING BY HAND AND MACHINE,



Cabinet Picture of Henry D. Morse
The Pioneer of The Diamond Couling
and Polishing business in the United States
Started in Boston Mass the year 1860,



Was The first to Cach American help the business. Born in Boston in 1824. Died fam. 24, 1888
Was the acknowledged authority on Stamonds and Precious Stones.

# Henry D Moorse

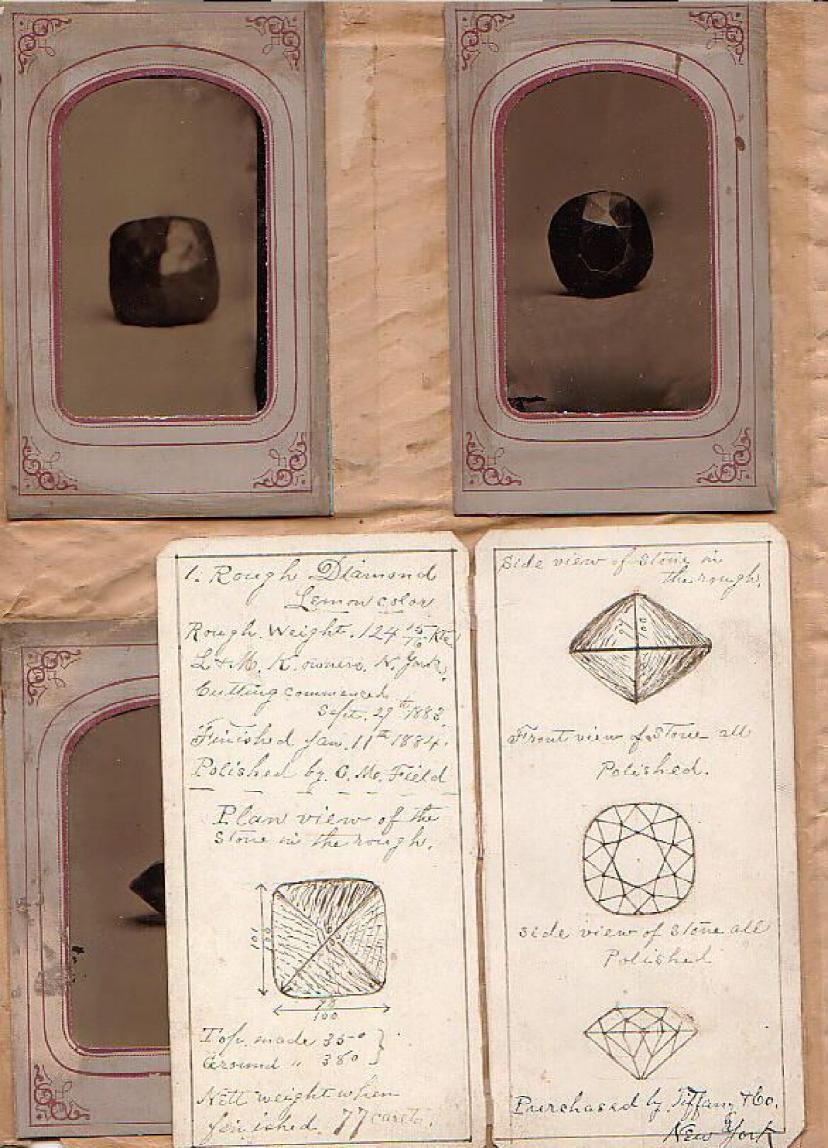


# Diamond Workshop.



Diamond Workmen.





A Menater Diamond.

The cutting of a diamond believed to be the largest ever cut in this country has just been completed it the establishment of Mr. Henry D. largest ever cut in his country has just been completed if the establishment of Mr. Henry D. Moreo in this city, the process having occupied something more than three months. The stone was found in South Africa, and was imported by Messrs. In & M. anhin of New York, its weight in the round state being nearly 125 kains. The work of cutting it was begin on reptember 29, and from the day until the 14th inst. the stone was constantly on the whest, exception on Bundays and boildays, Mr. C. M. Field, the forement of the establishment, commoting the process, under the supervision of Mr. Morse. The going as perfected is very building that the though it is not perfect in color, a marked yellowish tinge terrading it. In the quality of channess, however, the stone is almost perfectles, the only homes being as slight as to be perceived with difficulty by the maked eye. As out it weights 77 karnes. It is est in a rounded cushion shape with fifty-six facets, its size being nearly a full inch across, and its depth a little move than 5 tinch. The culling is manifold the cushion shape with fifty-six facets, its size being nearly a full inch across, and its depth a little move than 5 tinch. The culling lama beauty of the culting lama beauty of the culting lama beauty of the stone may be othered from the fact being a perfect flow while all the angles are so because in a state of the stone may be of the stone may be of the stone in a martificial light, the slope is extremely brilliant, and the play of prisonable colors is becausing. The value of this stone is nearly half as inch from side to grave measures nearly half as inch the others as large as placed as each the latterial as large as quite are specially extremely brilliant, and the play of prisonable colors is becausing. The value of this stone, when is another two charts as large as a strend of the stone states, when is another two charts as large as far and the buyer is weight of which is 1023-4 karats, cannot be stated, alarge as far and the buyer is welling to pay."

DECEMBER 8, 1933 BOSTON HERALD, FRIDAY,

# Diamonds Are Mounting in Price; Now Is the Time to Invest in Them

diamond bracelet lasts forever," said a certain blonde lady a few years ago. Today her sentiment is being echoed by a great many others, both blonde and brunette, and by no few gentlemen as well. For, despite the rise in the price of gilders, Holland money, in which all dismond prices are quoted, the sales of diamonds are mounting steadily, and have been for the last three months.

"The price of, and purchase of, diamonds is riving," said Skiner De Young, grandson of the first diamond cutter in America, son of a leading Boston diamond wholesaler, and now prominent in the diamond trade himself.

"Diamonds are a good investment right now, since they are rising steadily in price Every new quotation from Amsterdam is higher. Yet, due to the

"A kiss on the hand is nice, but a lean years we have just cone through. diamond merchants have in stock many fine stones which were bought at lower prices, and which they can sell below

prices, and which they can sell below the present market price, at a profit.

"We buy some from estates, and transact some buying in of separate atoms from private collections, when we sit sure that the person wishing to sell is dependable. We learned a lot, as did many of our customers, during the depression. Let me give you an example, 'Consider Mrs. X. She had been wealthy, Her husband adored her, gave her presents (many of them from Cartier's) and attempted to provide for her comfort after his death. He invested a great deal of wealth in stocks and bonds, and real estate. He did die before she did. The depression and buxiness reverses (she had some Kruger her comfort after his death. He invested a great deal of wealth in stocks and bonds, and real estate. He did die before she did. The depression and business reverses (she held some Kruger stock) depleted all her holdings. Her real estate, instead of being in esset,

is an expense to her. But her jewels—those presents that were bought so carelessly—have kept her alive.

"No matter what happens to the money systems of a world in turnoil, or to its business, or business promises there is slaways some kind of a rendy market for gems. You may not, prehably will not, always get exactly what you paid. But you can get something. And you can get cash. That fact, I believe, is believe in the last months.

"Eubles are ware precious than the

"Rubles are more precious than diamonds just now. Gentline rubles, of good size, and nearly perfect, are tremendously valuable. Emeralds are always a good investment, and so are

penris.

"In these latter years of prosperity, banking, and the belief that if you put money into something for safe keeping, money into something for safe keeping, you should not only be able to store it safely, but to get a return on it, is undergoing revision. The people that didn't bank their money, or trust promises to pay—governmental and otherwise—ave still solvent. No better, but no worse. No great Indian potentate (and there is tremendous wealth in India), will consider not having his wealth divided into three kinds of holdings—one-third land, one-third aller

ings—one-third land, one-third silver and gold and one-third jewels. "In Germany during the war and just after, inflation burst fortunes into thin air everywhere. Those people who could get their jewels sold somewhere outside Germany, kept the wealth librar jewels represented. Russian emigres lived on

thely jewels.

"The English syndicate which controls 95 per cent, of the diamond mines of South Africa has recently made a contract of agreement with the African government, which owns the other 5 per cent, and was threatening them with selling diamonds at a lower that no diamonds will be sold below the price asked for the tough stones in England. That strengthens the diamond monopoly and guarantees good prices. The Brazilian diamonds are negable in the sense of being able to upset the diamond market,
"Old time gambiers used to put their

From the New York 8 Industrial huntles October 1875.

### Gem-Cutting Machinery.

A MANUFACTURER of Boston, Mass., has patented some improvements in machinery for cutting diamonds or other gems, which consist-

1. Of a primary bed-plate made adjustable with respect to a tail-stock or carriage holding the stone to be cut, and bearing an adjustable tool-carrier or stock, which is driven backward and forward on the main bed by suitable means.

2. In the peculiar construction of the tool carrier, whereby a universal freedom of motion is obtained.

3. In the peculiar construction of the tail-stock or carriage, which holds the stone while being cut, to adapt the machine to cut gems of different sizes, or to adjust the position of the gem or cutting tool, in order to obtain a universal variable motion of the gem or tool, so that any face may be cut upon said gem.

Firm The Lewister Souncel

Mr. Charles M. Field of Boston, son of Isone O. Field of this city, has invented a machine for catting dismonds-the first machine of the kind invented,-which has already proved a great success, and is likely to complete revelation in the business of dis word cutting, which has hitherto been engressed by Amsterdam and Buttendam. Mr. Field is about to leave for Europe, to introduce his insention there. A diamond cut by Mr. Field with his machine, is on exhibution in Buston, and attracts growt attention not only from the fact that it laths first one ever cut is the world by machinery, but also because it is out with such unsurpassed skill.

Chas. M. Field.

DIAMOND CUTTER.

883 WASHINGTON STREET, ROOM 28. Foreman 12 Years for Henry D. Morse.

NOW WITH MR & S- HUMPHREY.

The same

BOSTON, MASS.

Diamonds Recut, Matched and Repaired.

From The Boston yournal Sept. 14 1878.

The Mechanic Exhibition.

To those of our citizens who were privileged to 12sit the Contenual Exhibition, and who now sack to refresh their recollections of that marvelous display of Industry and art, in the halls of the Mechanis Entry, the halter doubtless appears dwarfed and insignificant; but for the masses whose experience in public exhibitions of this character has been limited to the untervalues of former years under the analogues of the Character has been limited to the untervalues of former years under the analogues of the Character has been association, the present undertaking as far transcends the Expositions of Emand and Onitive Halls as there were collined by the International Exhibition of 1870. Although it must necessarily suffer when compared with the Exhibition in Falamous-Park only in extent and variety, it is an admirable illustration of the mechanical industries which have went for Massechusetts fama and possperity second to be State in the Union, and offers a wide field for the intelligent observer of the constant advancement in the area and sciences. Among the halost morellies in industry and ort, in the halls of the Mechanic Fair, the arts and sciences. Among the latest novelties in-troduced is

THE DIAMOND CUTTING MAURINE,

Invented by Charles M. Flaid of this city, and exhibited by the Morse Diamond Cutting Company. The muchine is operated by a tart, who findings the rough diamond that the form by which the brillingsy of the gens are produced, while the inventor in person, working at a revolving wheel, politics the stones. The process is decedingly simple and interesting and attracts the universal afternion of wisiters. In this construction, the construction of nection the company exhibit a case containing rough and insided diamonds, and specimens of emeral is in their mative been.

January 1308 (no Secondary Harman Col 20.1878)

queer headest happened valently near the
diamond-ceiling machine, which illustrates
the faith of the average Yankee in the ability
of New general be produced an architecture. diamond-ceiting machine, which libritation the math of the average Pankee in the ability of Sew England to precious any thine mineral, vegetable or otherwise. An old lady visitor, after daly inspecting the mining, approached the operator, and currend, "Say, militer, where do they get them diamonda?" "In South Africa," rapided the gentheman addressed. "Santh Abington! My graction askes alive, do tell! Pro lived in East Abington all my 102 and never seen my of 'om before." This machine attracts considerable currolly immong the country visitors, and many of them inquire. If "inmules" are lives flwy, the fair positively slows one weak from next Saturing, and can the no event be continued beyond that date. No reduction in the addressed will be retained until the sual day. During the making week the eventuals will be entired by ment, as follows: Monday evening, by Beston Caler limit; Tuesday wynning, by Beston Caler limit; Tuesday evening, by Beston Caler limit, Tuesday evening, by Beston Sankarday evening, by Canadare Saidwin's "Old Fulles "Salarday evening, by Canadare Saidwin's "Old Fulles Singers."

# al has. A

Manufacturer of Diamend Cutting Machines.

CROSBY, MORSE & POSS, DEAUGNO COTTENS AND POLISHERS, 111 Washington St., Buston, Mass.

U.S. America.

### AFRICAN DIAMONDS.

A Pleaner-que Story of Mayid-Souwth in Weslib.

The story of the rise and development of the South Africa diamond fields in its lie way, scarcely less pleasuresque than the remaidle matery of the discovery of gold in the rine of the state cuty on the Tanax of a treatment of the state cuty on the Tanax of a treatment of the state cuty on the Tanax of a treatment of the state cuty on the Content Similard, mobody exepected the entirence of diamonds in the country naw state to be an excellent of the country naw state to be a proper and the country naw state to be a proper and the country naw state to treatment of the wealth which say in copper and the gay pluming becaused from collicit talls. No doubt, they have since them heard that on an old man, maded 1728, the charter ascert had written described from collicit talls. No doubt, they have since them heard that on an old man, maded 1728, the charter ascert had written described to the state of the stat California and Australia, or of that wild tale of the rise of the silver city on the fance of a Media mountain in Nevana. In 1867, says the the state of the contract of the state of th

when Mr. Trelings whence Kimberbey In reactage, he desired that the atmosphere concluded mainly of "dut and flies." The clamate will still here improvement, and the best friends of the Campout falls must doubt best friends of the Campout falls must doubt the contract of the Campout falls must doubt the contract of th best fife his of the diamond finite hunt admit-tack if they are now, they are not productly. The finents still were dry and wire dusty. Yet at over \$000 feet above the sea " africh earlies enough, and in the last dec ... wirething has wonderfully changed for the issuer. The ha-tels are great, and society is pleasant, as com-mind society usually in.

Newscript of the call you were by her W.

The income of the great Kindlerly dia n ond mines in South Africa is \$20,000,000 a year, and it is estimated that fully \$19,000. con wetth of geme are stolen annually by the unlives who work the mines.

The display of American made breedly at Many & Co.'s stone in New York stitracts an under such day. The distance I need have, shifth are valued as high as 515,/40 and similar in the and the of the fally executed bits S'and sen receable to the fifth

#### THE DIAMOND SWINDLES.

Death of the Mun Who Risds a For-tune by Salting a Western Valley with Jermin.

A Lordenth latter to the New York Still tages. There Aresis died to his beautifu home in Ethintechnown, fals blate, on Enterder last et pastinopit. Seven er etgid years age his commend mine syconistics made his and as well known throughout the world as was svir that of John Law up they other shrew I sobtened who recessfully impaced on traditions a secrelators. Around was been in Hardy ecounty about ffully reary ago and was breed there, being appreciated to a halter. He can away before his terms of service expired, and embedd as a soldier in the Meanan war. After long was decared in the Meanan war. After longs was decared in the Meanan and he was all that he had discovered as impacts a self that he had discovered as impacts a self that he had discovered as increased in the local broke, it was self that he had discovered as increased and he good fortune. Specially, he was a self that the first had been a few or the local part of the first and the self-part of the local part of the first had been a few or the local part of the local show I seldence who successfully imputed on

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TAIL OF SEAS TO NEW YORK,

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That or seed to very true.

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they started from Desert, col., on May if,
1872, and after travelling rise, days, Arnold
told them they were on the spot. They after
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in heatach). He was not him

### PRECIOUS STONES!

A Super's Selection of Dismounds, Rubics Empire2ds, etc.

There is no branch of hade in subdence reconfiguration still and probley then that dealing in humands, and the boyer is nowhere else more dependent on the sharacter of the home he deals with. Everybody admires diamonds, and there are but few people has have longing desires to possess our of these beautiful germs. And yet, perhaps, only a pro-portion of all the people who love used admire these pressent states, know that the diamond to the weight is a vasily different thing from the same gone out, poli-heal and not in finger the tames you cut, peaking and are in any ring, mechanic, became no or surveying. Half ring fife, bell large and hoursy lies berned in the rangh stone, testil released by the diamond entier's art. After that, and only size, we red the weaderful sparicle and heartful play enters that are the delight of everylever who very difficult, and far a long time the secret was known only to a very limited energy workness in Knerge. Knowledge of the actuals have the present more of the care, and have the middle can parts of the wild there are to see Sound good a time. Here is Boston a great deal of first-share work, inferior to make the elsewhere in the world, is done. There are a number of farm here, but more can turn out work through to first which cames from the establishment of Mr. Henry D. Morre, No. 436 Wyshing to a street. Mr. Morre is theroughly preferent in all the dendits of the difficult leadness, larging been expaged in it for a number of reare. of Team

His establishment is one of the most complote in the city. He employs a number of steen, and has polishing wheels cut by power, He employs only trained and experienced men. and has prived a standard repression for the curefulness and therespheres of the work done at his establishment. He has a superb selection of dissecucis of his own coming in selfactor out-sings, here jute, six. Also fine runies, suppliess, emember and pently at wholesale and retail. He imports argely discussed in the rough, and sends out from his establishment some of the handsomest general in the market. His collection of rough dismonds of all sixes, from the point of a pin to a small egg, is very attractive and interesting.

Mr. Henry D. Morse has just completed the cal-bing of a actuary server cannot dismonly the bright should rever cut in flaction, which he a perfect example of the habitary h art. The year hadman square in many of the palent prince that, and so accountingly cut that he extra releasy brillings is becaused a branched fall. A west special secrees has rawly attended the famous diamond outbers of Europe, and it is beginned the litting rest may be been by all who are suggested of the difficult and laborious work which Mr. Sloves has no complished with so much credit to binnelf and to Ros-ton.

John Ruskin, who persumes to know all about within a military, sees if any warmen was every made become by awaring a made. Minneyer, he can be a part of the property of the part of t wiman's notice, asks H any waman was ever

-The famous diamond minor of Golconda, bu the Garges, are new descried. Two centuries ago, \$50,000 persons of both series and all tigos downst engleyment in them.

[FROM OUR RESULAR CORRESPONDENT.]

# BOSTON

### OUR REGULAS BOSTON LETTER.

Husty Per Pictures of Leading Merchants and Manufacturers, together with a Synopsis of What They are Dolng.

#### SOMETHING ABOUT DIAMONIS.

The Largest and Most Influential Importing House in Buston,-H. D. Mores

For agen past the diamond has been held high in the estimation of those who love jewelry. and the splender of the finer stones has certainby justified the preference. Aside from its value as an article of adorament, the diamond also has been looked upon as a descrable form of inment, from the fact that its value fluctuates but little from year, to year. The business of importing diamonds is a very interesting and important one, and is generally so regarded. The chief bouse in Boston in the business of impucilug and cutture of diamonds is that of the Morse Discussed Cutting Co., of No. 436 Washington etreet, who have intimate relationships with the dismond producing parts of the world, and the firm are able to secure from time to time a large proportion of the largest and finest stones that are found. There has been much written about dismonds and nothing said which would be a guide to the purchaser. " Poyers generally have the impression," said Mr. Mores, "that the color, perfection and weight are guides, and having an eye for color, and with an eye glass to detect the imperfections, if the weight is guaranteed, they have the whole thing, and flatter themselves that they can buy as well as any one, and can go from one dealer to another, judge of the comparative value of the different diamonds which they have seen, where a dealer who has had many years' experience cannot judge abstrately without the elecest scratter and most careful companions, and will even then (in this present demoralization to the dismond market) distar widely with others of equal experience in regard to values. It is not surprising that so many poor diamonds are sold. when it is known that mue-fouths of all the dismends imported are of that quality, and the con-trath of fire once are sold to fire-class dealers saly. Deware of the dealer who talks too much about the weight of his diamonds, as the quality is sure to be deficient. A first-crass slealer who less fine goods rurnly speaks at the weight unless saked, as he depends upon the size and beauty for the recommendation, not the weight. It is the custom for buyers to go from one dealer to snother asking the price per kt, of dismonds of certain weights ; it would be just as reasonable to buy a home by the pound." Mr. Marse and further that a loyer might matturally ask are not dismonds sold by the karat? "I would answer yer, in lots at wholesale they are; the distond cutters buy a parcel of rough dismonds of mixed stars and qualities by the turnt, and they are generally sold in lots of assorted state and qualities when finished, the price per hard depending upon the not weight when finished, some lots yielding to per cent. others 40 only, but the prices of the individual siense would depend upon stre, color, brilliancy and perfection, which takes an expert to determine the matter values. Most of the Dutch cutters and policiers are trained to leave the diamends at heavy as possible, having no regard for their beauty, and as they mramably work by the piece, the more they flarsh within a given time the more money they make, consequently the work is slighted, the stones thick, deserged ill shaner, the beauty being each

Continued

is the character of nino-tenths of all the dismends imported into this country. To make a parcel of rough diamonds (et good shapes and good materials) fine, the yield would not be much ever if per cent; it clausely made, the yield would be 60 per cent., which would make a difference in the actual cost of about 50 per cent., making the fine ones worth one-half more than the others. The greatest brilliancy the diamond is espable of receiving by the skill of the polisher is the desideratum, and places the genetits highest point of value. Since dumond cutting has been made so American entergrise, perfeculs; after int has been given to perfection of cutting, and the American workmee are taught to pollah every facet at the peoper angle to bring out the greatest brilliancy, without regard to less of weight; and it as approxiated by those who are the host judges, as a great number of stones out in Europe are being remodelled constantly by our American workmen, which is a high compliment to American skill. It is cortainly desirable to all who aspare to own a dismond to have a buildant one; builhancy being more descrable than perfection,

although flaws which are plainly to be seen with the naked eye are objectionable, and the value is demanded, according to the extent and the therings of the imperientions; a small speck or faw which can be seen toly with a magnifying power dore not depreciate a stone (where is otherwise beautiful) but very hitle. Many buyers look for perfection and overtook many other important qualities; perfection is rarely to be found in anything, the eye should be a suffimon eye glass might wwent an imperfection which the eye would not detect, so would a microscope reveal imperfections which could not be seen with the eye glass, if so the skeen is imperfect. If work tests are to be applied, perfort diamonds can hardly be bound. The bounty of the diamond does not depend upon its perfection, it is not necessary to see Il through a unicroscope to admire it, if it estishes the eye that ought to be sufficient. Those who know the least about diamonds are the most particular about perfection, and cyrricolt the more important qualities. A mistake is made by many persons who, in trying to make a "great burgain," seek some lost office, pawn office or Innerent diamond broker, and there buy dismonds of an inferior quality which make a great show for a little money, and dealers of this class, having so many calls for dismonds, are obliged to buy of importers to supply the demand, and represent to their customers that they are all pledged for money loaned. The entest way to obtain dismonds of fine quality as to go to reliable, first-class dealers who are experts, and trust to them for the selection and price, as they have a reputation at stake, and are bound to use their customers fairly." We are under obligations to Mr. Morse for the above facts, and regret for want of space to bring them to a close. As before said, he is a large importer of dismonds, fine rubles, sapplures, emeralds, etc., and a manufacturer of diamond jewelry. In the stock are at all times to be found goods of wooderful beauty and value, ranging in price from \$5 up to \$25,000. The firm are, and for many years have been, admittedly at the head of the trace in this cours try, and shey but fair long to remain ex. Mr. H. D. Moreo is the ruling spirit, having been in the trade these thirty-five years. He undersmade thoroughly the art of cutting, and as a judge of diamonds has no superior.

# BILLIONS IN DIAMONDO

A Geleverite of Persians Stepes In a Jameller's Vanite.

a mineral simil expert connected with the toggist jewelry along were York city. permitted a newspaper man the other day to look over a partion of the firm's steek of arelook over a partial of the firm's stock of are-cious states. The crisist purity shares the times of Belloomits and the crossy sewifed all large at the partial partial relies, taken at all one partial partial relies, taken at the partial partial partial re-commendation of the partial Size of agents and the control of th

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### TIFFARY DIAMONDS.

No. 1 Many has two large dismonds watch have often been referred to, says the New York Tribune. They are both monthly in Miss ourselve 's work as "Treedoms Names in Names Add and the tries." The better contribute the first of the best of the first of the f Miss Stretam's book so "Fredom Manes in

The Tidany stoom before across, and is him. Inductions Opening Colors

There is sunt to be dust overywhere, but what constincts dust is a variable material. heavy according, the working of three un-less than the working of metals, develop don't seed accords affait the large. I won often setthe there. A workers who had policited parthe there is tenthema who had peloshed gare hick, see the tenth I per ent., of som in their formals the heavy as tenth I per ent., of som in their formalism. Lemming process they have been a result of the result led, and lits rough were found to be perferred,

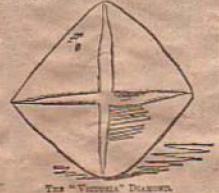
A Washington dispatch mate: "Mrs. Aspr. of New York were diamends and pearls at a dinner at the White House on Monday sucht, amount, at the Mexican minister's, were worth mearly or quite one million of collers. She was attended by two detecsizes, dressed as greateness, and a potternan here guird before the door of her room at Wermley's, day and night? It is a very said east, and we pity old Aster more than we can

A lakest Drawings—By the latest all see from the Cope, shother "paragree of nature has been discovered at the Kenterley Misse, Such Africa. On the 17th of Metri lest a flactor was fortunate mough so that a dismond measuring by temberia locate and is inches in diamote, weigning to less than 7th carata. The is by far the largest som yet discovered in South Africa, or, is fact, asserbers, if we except the "Fix" and "Mattam" of a flats shaped in their norm shape, and some diamonds of appearphic history. It is a perfect orizing from the stopp and of the result "Cope" or "off" older, shaped and the preference of the second class from the property of the second class for a stopp and the second class for the second class for the second class for the second class for the second class.

### THE "VICTORIA" DIAMOND.

THE "VICTORIA" DIAMOND.

The accompanying diagram represents the exect size and shape of the large discount found recently in the Kimberley Fields. It is talon from a phinioscoph which has but resolved in four a servate correspondent. The shade, which has been extend the "Victoria," we shade 2011 margin 1 is said to be the largest ever found in the Fields, but norther most ralizable, for although a perfect stone in form, believ cetahodien, in colour it is alguly yellow, and therefore not work to minch as a print withe diamend. #2000 has been quoted as the market price.—Fall Mall Graphic.



# MINNIE PALMER'S DIAMONDS.

The History of the Celebrated Cleveland Gem.

### A Diamond, That Weighs Forty-two Carats.

Glances at Some Magnincent Jewels.

Titlet is the ook in which they are kept; you saw it is really a small discrepant from unfor Then there is a sale lead for more in which the safe is kept." The spinker was Nice Winnie Palmer's representative, and he got the Willes were sealed about a table to a pleasant. persons partie at the Adems House, upon which the a plantage mass of page force Schools. The contented the small how take were restored all over the table is small trayed. some five areals of them having been removed from their place of sufakenous. Each tray Was fitted up to contain certain articles. One had places for 10 rings, and in for 5 bears. her, another for the southers and pendent and the fitness "for dissecut," and the "Clevel [204 gam"; another for diamond organization for the lade, applier for broughes and have plea, and she the lower tree; hald a benefital silver spect bolds expelently carred, that was presented to Mass Primary by the members of her company at the close of the presence willy long run of "No Ewenteen" in London a year or in non. A lovely silver pockettoot of a similar design oprupied a pucket to the same trays this was presented by the measure wife at the same seest bottle was green. The word heaptiful meticle in the tray, bewerer, was an exquisinde printed and of the Magdalou on purce. Into, taid to have been done by Ithian. The medalities have been done by Ithian. The medalities, and acceptantly are consented of a well-known old hardest found of rich for a new diese, and acceptantly are consented by a straightfow of fine jurpoints. A later owner, and of was in this wife present—souddling hards, and of the first a row of halfflint causes, and it was in this wife present—souddling him Palmar because the present—souddling him Palmar because the present—souddling him to profeet out and color.

Along the more prominent of the many breakflet ortanents displayed were two splengible single atmosphene of a tree two splengible single atmosphene of a tree two splengible single atmosphene of a tree course of the color, with a first art of outers demonstrate, a brequence ring half two times of these time school, with a first art of outers demonstrate the present all of the first waters. Almost the level prevents. liste parented head of the Mandalon on purch

Very Large, Oval-Shaped Turquoter, with two large diamends humming on either with two large contained a ruby and four access of probably I means only Among the beautiful were particularly religious and bourtful. One held a clamond, a supplies and a suby, perfectly praished in the anid maining and such a suby, perfectly praished in the anid maining and such as and a suby, perfectly for a such as a second had a sub, and all the third that a sub the sub anidate that the sub animal the third was a second hand of the sub animal sub the sub animal perfect the sub animal substant and the s mond, a sapplire and a ruly, perfectly

Couling in.

and weight 25 carsis. Until the Cleverand wore was beard of, this classion was the largest and most valuable that had need then have and most valuable that had need then becought to America. It was found in the same misse in South Africa as the Cleveland gen, and everlinally found its way to the same damped seventhat me have book to the publication of the sour famous stone. The stones in the publication, muchlose and sleap number nearly the and allow the most beautiful calor, shape and outland. The times the most range of the most remarkable of allowing the most stone of the most remarkable of allowing the most stones. The stone calculated gam. This stone was sweeted by a synchologic of gratication to were allowed the independent of gratication in the work allowed to the foundation of the and and the stone calculate that of the and and the stone calculate that of the and and the stone calculate that of the most of the same of th

Weight Extelly 42 Carrie.

The amount paid for it by little Palmer was \$10,000, and all the last, all is becoming its owner, several trees had offers for the stone for our pushing the somethe paid fur at. It was need to use recent exhibition in New Orients by Most Palmer, and received the gold metal for

mai com a dell', but le comit and the land of a rose mais of desire and the mais of desire and the mais of the rose for the mais of the rose for a content of the rose for the rose reverse the last of the rose reverse the last of the rose reverse the rose of the rose for the rose of the rose for the rose of the rose for the rose of the

minute. With that profound question the born of plittering lewelry was replaced in the current trive, and have in tire in the fittle from all that the Miss Palmer's dimends were taken dues to the thinking where any was a long dressing the the amount act in which is a resistant and number of her valuable and dressive selectrated years.

### MISS DAVENPORT'S DIAMONDS.

### The Thief Who Sile Them Arrested and the Jewels Recovered.

KANSAS CUTY, Mulafeb. 4, 1807. Charles W. Talvot, the Memphis Batel circle who can off with rainy Darwinson's diaments and some of the boist's lunds, was account here heav by a Particular defective. The dismends and most of the model were reconered. Telescary, his mistress demands for money had also to sommit the thath.

New that Pagery Divergers has negotiered ber firmonic, it is to be supposed that the has got of the alterphonous or that this design that Herry with

### CURRENT NOTES.

-A caret and a half flamout was lately disescaped to a California grave | pln.

Mrs. Markey is reported to have account a believed anything from a crosty fines are Prince for the total of Fill-point.

# ABOUT DIAMONDS,

Bogus Genis, and Others That Are Real.

Hinto to Purchasers of Costly Jawels.

The Woes of the Legitimate Distalons.

In 1 are line over by discounts were holgs of ones. Their projection indicated officer wealth or artistating for the laberthouse there of the believes was rated a gent of some and the Compute owner was the every of his pilling-men. All is abstired more. Discoen approximally recognized please, and herehere are effected as attraction as breath of the here and sender out, that is, if no the "affected" disserted bearing and processed in the reckening. It is note to my that at its period has the morter tion as decided with famous of a morthless and inforce quality, having absolutely so commercial or intrinsic galler, and forming the staple of the most soraffed bureaus (7) served by inexperienced ed in attenting admiration, and which still and the is no unpressed a landston. How-From -to ill Viewice, There is an delesiance, main-In fat, that can seeled any exception not which is this respect. The world and parisms refractions of the spal, the refrecting hist of the correld, the sugular and benefited tight that element from the severis, the rich golden conditiond with the high instruction that dis-Singulab the resty, the copyrige and the basis, beautiful as they my poor upon near importion, are almost entries best to the distant behalder; while the diamond, on the contrary, whether planing on the crown of state, or diffusing its story radiance from the broad of tisted merit, or wreathing itself with the balt, and entering arbitrarily into contest with the living hairs of those eyes which "rain influence" on all beholder, preclaim; or did proclaim, in the inner gone by, to the rest distant of a sur-rounding grown, the person of the mounter, the mostle or the leastly.

ANTTHENS THAT GLOTTERS

ANTHERS THAT OLDITERS
has an althraction for the people. There is a gillion about the short run to wealth, and hone one sees it everyway lightly examine nor the crease be optioned and poollon; there is a gillion asset to optioned and poollon; there is a gillion asset to optioned and poollon; there is a gillion asset to the dismonth make in the property of the pool to property and the property of the pool to be property of the pool to be a pool The province and other to the man have in the constitution of the land of the purchase, the

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Special of "out calor," Or interior brilliancy, and inbeing these may make represent to the first thing the real gent. It can be treatherly with that "the real gent to had no because the state and been represented as being the healty ablance with demonstry." One passed the real search and the posteroist of presents at the court of the real search of the

THE INTEREST OF MARKINGS

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from the decise to the select and west from "50 ft ft," and one of the select and west manners is smanned decises in this care, "with the trade in command the form one, "with the trade in commands. The manners from the last are self the layers about the jewels, the last are self the layers about the jewels, the last at layer and the select of the layers are the property a change grant to largificants business. They prefer a change grant to largificants business. They prefer a change grant to largificants business. They prefer a change grant to largificant to the the make of dealing with investing the largificant to the the make of dealing with investing the selection of the sel

Example of soler of brillarsey; but what is weight compared with either of these desiderates:

"The year not meet with many people who consider heir judgment infallille is the edge tion of discovering."

"Indeed, we do, and they are the horsest restemens to used with the possession of dismonths does not make one a induse of this beauty of shi dresses, but what does she though about a like To Indeed a historia or errority requires long practice and experience, so it does not a like about for a person to came it and till as where we shi set the best dismonth, in these there we shi set the best dismonth, in the process of the control of the description of the descri

THE DESMOND IS FURN CHESTALLINGS.

THE DEAMOND IS FOUR CRESTALLIES.

Its particles agrain in the highest number of the main; but the calveran and is handle than the interval parties, and the main; but the calveran and is handle than the interval parties, and when protocols from an action of interval parties, may be beneated in our stables and when protocols from the action of interval parties, and when argued in the interval is not thought when argued in the interval is not fitting to protected better, or by a problem of interval protection of the interval in our stables, and it is resembling to a unit is specific grainly in an action of the interval in series and in our will an obligate unit in series and in the problem of the distribution of the first superior when the interval of the stable of the calver of the problem of the first superior of the first superior and the first superior of the grain of the problem of the first superior of the grain of the problem of the first superior of the problem of the problem of the stable of the superior of the problem of the problem of the superior of the problem of the problem of the superior of the problem of the problem of the problem of the superior of the superior of the problem of the problem of the superior of the problem of the pro

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But, in opts of the incontrable methods of determining becoming a value of demonsts. It is a very simply matter for a person to be imposed probe wally

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will a solve a case, so determine the called and the collection of solve. Old demonstrate the collection of solve. Old demonstrate the collection of solve the collection of s

according damaints, and, its selecting the grow, a selliner of the weight and harmony. While there are many boards dimension, a fact that there are many boards dimension a fact that there are many boards dimension as well as weather as the property of the personners of the genome order in the third with the restrict that of earlier persons the masses, for grader than at earlier persons. In 19th, and a restrict that at earlier persons, the masses are considered by the contract persons of the contract that the foreign a true to the fact of the many, and persons of the restriction was demonstrated by the contract persons of the contract that the contract the contract the contract that the contract the contract that the contract the contract the contract that the contract that the contract that the contract that the contract

In schedule dismonds, it will be well fee the purchaser to head the bods and surrections given above, taking special union to study a dealer whose knowings of their infermite value of the rens makes the advance white the rens makes the advance special neither the rense that dismonds, when the study is above represent. It is well to remember that dismonds, when well set, alwars appear that dismonds, when they are losses, and that the curvaminates gives great advantage in the seller. If a person desired good dismond, he is always appear in the first part of the seller. If a person desired good dismond, he is always as the seller. If a person desired good dismond, he is not if the good sense is exercised, be need not be awarded.

### A DIAMOND ROBBERY.

The Murer Diamond-Cutting Company Defrauded out of \$3000.

On Wednesday last the Morse Diamos Cut-ting Company of Heston was defineded of \$2000 worth of diamonds by a stranger precending that he wished to purchase Late Bullering night a minorious eneals third, " Fildy " McLean, shas Hamilton, was arrested in New York on mergicion and is held at police headquarters to

# DIAMOND GUT DIAMOND.

A Visit to an Interesting Bos-

American Ingenuity vs. Europeans Methods.

How This Gem is Prepared and Polished.

While making some inquiries among Poston preciles recently, a Transitor rejector received Shinterested tentimony from several nonzoca to the excellence of the diamend exting that was done in Boston. This cine followed up led to a visit to the office of the Henry D. Mone Diasound Cutting Company, and permission was given by the genial president, Mr. Heavy D. Morse, for an inspection of the factory. Mr. Morse, by the way, was the pioneer American formed cutter, and the application of American impossibly in conjunction with a thorough study al the scientific principles of diamond entring. has extend the gravels of the exterpoise to its present perperties, and the adoption of impored madining has now placed the work to advance of anything done in Europe.

Arrived at the factory the reporter was introduced to the forecase, Mr. Charles M. Field, who has been in the employ of the company for over 12 years. Mr. Field was engaged in handing several glassy-with publics, looking like particles of clear gons arable—those with the country in the match.

THE CHARLES OF THE DESIGNAL

in their cutilises, this abled to the similarity.

The diamend is cut in shape, not unlike that of an old facilities hapstock, the part that rests upon the ground is called the table, and this is the face that is exposed when the geon is set. The appear of the stack corresponds to the part of the stock which is inside when set; while the part of the stack from which the radu deopelies ears, so the speak—corresponds to the line about which the setting is fastened. This is called the girdle.

Neary stone is cut in shape more or less approximating a resemblance to this, all of course is no flatter than the usual run of haystacks. The European cut gems are generally much desper than those cut in Boston. This arises from the curious endeavor to keep the weight of the stone as great as possible—about as sensible a preceeding as to buy a racing horse, not live speed but for weight.

THE VALUE OF THE DIAMOND.

is dependent upon its color and brilliancy; and mass Mode-Persianic canon of American culture that everything shall be sacrificed to brilliancy. Since the introduced many of Mr. Morse resulted in the discovery of the angle of netmotion of the flamond which most contributed to be hardy, all sacres are cut upon this principle.

The processes by which the dissipant is refused from the appearance of a glassy public is are most interesting. Each public is examined as to its possibilities by the forman, and the source in regard to it is decided with refuse to flave, whice, and size. After this has been resolved upon two phones are fixed in a bed of commit with the faces which are to be worked upon exposed. These are then fixed in a mantite which is a marriel of adjusticability; in appearance this but unlike an iron lathe, exrept that the motion is not a receiving me, but

STREET BUT ACROSS MADE OFFICE.

making a operating none; and gradually, by the professe of the arthur on the part of the normals, a face is were on each gen.

The first boths about like a place of arther rough ground glass, for after entiring the painting processes, muscaling entirely expansion in an follower. Edwards to use Approximation armine the stank in made eight midel; this gives the realist of the atmosphere exchanged incoming one and approximation of the atmosphere expansion of the atmosphere exchanged incoming one.

the eight faces start ngain to the aper of the stack, which is flattened off in the discood, and this face is valled the collet. After the the minimum of the collet. After the start is a they

stack, which is finitened off in the diagonal, and this face is called the collet. After this the angles are cut off, to scatter the light rays as they come from the stone, and so that the stone may appear spatching from every point of view. Now the stone is ready for polishing. Owing to the

APPLICATION OF THIS MACHINE

to the process greater arcuracy of nutting is obtained than could be reached by the minual process imployed by European workman. This washing is the main curious phice in the whole factory. It was a pold modal it one of the atcilibitions, and is the invention of Mr. Raid himself. In this connection another important invention—that of Mr. Henry D. Morse—should be nearlitated; It is one used for testing the accuracy of the curious. It projects the argues of the smallest stone upon a dial which registers its size accurately, and anything not mathematically correct is rejected.

The policiding of the genus is a very profity process; it indicate upon cast from wheels which rereave at about 2000 perchasing per minute, upon which distincted don't that was the result of the astrifere process described above in placed. One of the workness was ongaged in printing or statements and or transparents one or transparents.

It is done by rubbing pieces of cellulary productions from the circumference in the centre of the wheel and the result is like the picking of a millionic. This diament powder gives the wheel a bold upon the gent and in the weather release the gent is gradually possible. Currons to say, the diamend has a graduable to the weather to say, the diamend has a graduable to must be discovered by the workman or the stone cannot be storees fully operated upon. Only about four stones can be attended to at a "time by one workman, so close is the attention required. Should one of the stones be planed down too much the whole gent unual be given over again, to say bething of the loss of the stone in size. The workmen are a more than ordinarily hyteligent looking closes of man, which, considering the high choic of the American mechanic, is raying considerable.

The superfority of the American cotting may be seen from this—all the Morse out diamends are so cut that all the light entering above the girdles is refracted in such a way that it comes out again above the girdle whils if attention is paid to the weight of the stone, and it is made deeper,

THE INCOMING RAYS ARE LOST

by striking out below the girdles, and are thus lost to the eye. The Morse system of cuiting loses nothing from the apparent size of the stone, as the circumference remains the same as in the case of the European stone, the only difference being a greater brilliancy of the former and the absence in it of large planes reflecting ne "fire."

Mr. Field keeps an interesting momenta of the large diamond with the cutting of which he was entrusted some years. It is of copper, made by the electroplating process, and those is also a similar one of the stone in the rough. The finished stone was rather larger in circumference than a man's thore's wall. The cutting and polishing reduced the stone from a weight of RB to 77 coests. This is the largest stone ever cut in America, and it was recently protouried by European complements in New York to be the inset accurately-cut stone in America.

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Diagraphs wifted at \$1000, on which no deep had been paid, were discovered in a packspe in the New York Past Office the aster day. They were discount to a jeweley firm to that only. They were notificated.

Therefor of Camoud to Ber Vork are estimated to door up \$50,00,000 or year. I want too largest firms and said to large a stock of \$15,000,000 case. The importance are ellefty from Section. The dominal in topoly the



GLASS DIAMONDS.

A quest deep was being and the New York was written. He subten "A hear, who had preven thest of the setting of her dissected the called at Telluspy this wook, and assectated has setting she would like. The assectates causally examined the ring use training about the heart which he remarked "Madam, this is wet a dismouth it's gives." The heart replied that is couldn't be possible the property as the heart replied that is couldn't be possible the ring with her engagementing, alternative of My searchest were given as at the same time by my her shade. The attendant nessed her by permit nine to examine the carteries, and there also were dissovered to be gians of very fine quality. The help hold the young man that the ring and the bears a wowed that she was our fits she was on the day he gave them to her was correct and that he poung man whose wife she was on the day he gave them to her as a torrect and that the property of the pale a mainty good prior for them. The mystery deepsead, but all that the characterist and a minute the dismonds and how one of Illiany's piece for a manufact of years. The lady returned to her nome. She then recalled that the had disaulties about how she learned that he had requestly mentioned disp he was a toweler in France or Germany. The lady monoided data he had respector. Burness is looking for that jeweller intitler."

"The continest diamond neckines over grand in this country was wern by the late Mrs. Mary Jane Morgan of New York. She had a passion for diamonds, and this neckinese cost her Sove. On She paid 348,000 for one stone to add to it. When she died the largest of the shows were said thighy, and then the atertiace was = 10 for \$50,000.

-A San Prancisco Jennity state injury, who is harmy as the "Diamond filing," settled the Philipsid phina the other day by processaling the comfort of the Continental Hotel than gon-money strayed, according to the Thirty. On his scarf street a pigeon-blood roby, marranded with Games in Co. his left into Eugenspanished byte military military bids damaged. From any count chair into the process of the country of the property of the water the latest of his cost, just people on from under the layed of his cost, just people on from under the layed of his cost, not people on the latest of his cost, not people on the under the layed of his cost, not people on the under the layed of his cost, not people on the under the layed of his cost, not people on the under the layed of his cost, not people on the under the layed of his cost, not people on the under the layed of his cost, not be meaning the according to the layed of the cost of the layed of the cost of the layed of the l

-A Municipal estimated to be worth to \$1200 on \$4500 was found lately near Gal

An American buty who attended a court meet-An Anstrola lary was altered in the anti-precision of the University without "We alteredated the Empress through 2000 officials. First blesuch gurers what departments, such binaing with a thousand was tapers and gorgeous with principles language, malnetite pillars, works, of not and brested fewers and ferns. At last we entered the there rous, and there, surrounded as a sea of splender, stood the Emerous, herself a moving mass of distinguis. Her was the most darrier sight of all. On her head was a stamp once when be the great Edinbeth, She was enough of her golden time the breath wat of a look, but, surprivate and man brained District and the sale with the sale of the

## A DAZZLING STORY.

Boston the Great Diamond Cutting Mart of the Country.

Interesting Accounts of the Brilliant Come.

Holland Dufchmen Outmitted by a Xankee.

Division assertions of a previous to full out, by the way of Washington, the other day, that Bearing to the great Cannal radies any of Approx. Backet and her the the telegraph had incliningly ample properties at the lambout Congress, the orthogonale of the host permitted been been better from the point. for an enterest line. And a calling leveling so great captual, and expended such they and permiter suffi, to her hear agreement with the The sanding people of the housesses in a proposed of the housesses in a proposed of the market course out in housest on an an external day of in proposed on a part of in housest on housest they have Seemiders have alterned to the country free, while on our and oil dismonly there has here a vex of 17 per sent. When the resemblished of the sounded were there, the discuss above of Paper, in such section with the end here Text, section 5 In SECRETARIA, WARRANT WAS DESCRIBED IN THE CAME. alors by Representation Caroline of Manage chapter. The symmetries super-Maring the past to proce affects have been under to haid on the mineral ter he hundred of your, teen confined in kingle. member to Malance, Flatting Sense more years up-, he mad there me at married and otherwise of or, it was presented in course the coupling the properties, and at the treat I have there are a hope-anicher of ethics, mornious, employed laid. The present tack admitting the respiand mared discussion has, whose three nat are the state of the set of the part and an indicate, and the part and the

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The process of outling manufactor large size is always stiented with size, and is necessarily a costly observed. The largest cost for earling \$25,000, and acceptable works the The Start of the Annual Cost for help in the Annual Cost for help in the Annual Cost for help in the Annual Cost for the Annual Co

MIL WORTH AN AN INVENTOR.

heads had gather very of diament online in the United States, Mr. Moras had traced in the Control of the Mark t the one of sent newscatters. In they the one of sent to be subsected, as a set they experient, as a set they experient as a set they experient open in this manner than a sent they are all they are a sent to be sent to be subsected as a sent to be sent to be subsected as a sent mired open the which happy of half which would be present to years or application to be coming of the trans. Hereby decided the transit of the transit of the transit of the property which he becomes the pay of opin which he had been transit of a later because the transit of the fact that the warrance took me and a transit of the transit of the property of the period of the covery of a period property of the period of the period of the covery of the period of the period of the covery of the period of the period of the period of the covery of the period of the per covery the next presented to activate the management of the party of t

THE ARTHROPAL PRODUCTION OF PRANONDS.

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THE ARTIGICAL PRODUCTION OF DIAMORPH. A five years good the diamond design of the vertile were sensivistic everylest by Lie and nonlinequests that a province had been discovered for the artificial production of diamonds. An excitabilities reveals the lart of the momentum of the reveals the lart of the momentum of the reveals the lart of the momentum of the selection of the lart of the reveals the lart of the selection of the lart of the reveals the lart of lart of the lart of lart of the lart of lart of the lart of t at the tree. After a fine

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had found long before in the firmed on of these politics alimeted Fills, a time that the fill of the politics alimeted Fills, a time that the fill of the fill of

Seven nundered and twenty-one diamonds make the Empress of Japan a happy woman. Her efficied uniquely is a communicat of product stones and chewing gum. Blie is a

The Buffalo Pice.

Dorratio March 21.

Processo, March 21. The arter was profeto ar paristo wants at classical, were found to good shopt.

### CROWN DIAMONDS FOR TALE.

An expensions Paris jeweller offers to supply persons who wish to become possessors of some of the famous crown diamonds, which are to be extered for sale May 12, with ornsments studged with these historic brilliants. He intends to buy several loss of the diamembe at the own that, and will then drings them, promised in stars, brustlein, ear-thirt, perchases, brustles or well-alrea, among solthere are the barries and had, soon

10 company

MAINE UEMS.

Discoveries in the Androscoggin Valley.

Notes upon Some of the Gem-bearing Minerals.

[Thomse P. Lands.]

One of the choicest gome of the State of Malne is the sourmaline. Even in the scynterath century it received attention in Employe Its well marked characteristics ware, however, symbolical and it was therefore termed by some Brazilian emerald. Dr. Franklin was interested in it in 1759. Its many attractive features draw the attention of lawers of nature and science to it. Its resplendent colors, so varied, so intermixed, accompanied by its attractive and repulsive powers toward substances of Brile wright, when exposed to the rays of the sun, or to heat, made it show only great beauty but almost evidences of Mr. The English philosophers confirmed the reprivat opinion of its wanderful electric power, but its identity and true description are hardly a contary old.

There are only a few places even at this time, in the United States where colored tournalines are found. The best are in Maine. Mount Mics, situated in Peris, Maine, was discovered in 1970 by Elijah Hamlin and Erekiel Halmes. You have all, no doubt, read the feminating description given by Dr. Hamlin in his book written in 1871, of the many tourmaines granured from that locality and of the assains when the deposit was regarded as completely exhausted only to be again revived. Last summer the company formed by these gentlemen were quite successful in unearthing many specimens, among which was one of rare beauty and size. I had the pleasure of seeing it this winter. It was of a benetiful emerald green color and as large, I should say, across the crown after it was cut, as a nickel five cent piece, weighing 3414 carat. It was the finest Phays over seen from any locality and was

valued at one thousand dollars. In 1868 the attention of Dr. A. C. Hamlin, of Bangor, and Samuel Carter, Esq., of Paris, was called to the Merrow locality at Auburn by Dr. Hill. As Dr. Hamlin had a deep interest in matters of science and had had success in obtaining fourmalines at Mount Mice, he and Mr. Carter soon visited this locality. The prospect to them seemed very flattering, as there was every indication of a rich yield of the precious stones. Tourmalines appeared on the surface of the ledge, which projected a little distance from a gently aloping hill and far below its summit. The surfeer of the rock and adjoining earth were strown with mics containing transparent commalines and large masses of pink lepidolite. They picked up specimens of rich green tourmakines. In-deed all the specimens they procured were of a rich green calor. Their high hapes and sail. tpations were soon followed by disappointment on finding that there was merely a thin costing containing the tourmalines upon the outside of the ledge. Discouraged and dissatisfied with the outlook, they senatured forth to prospect in the adjacent lots, and by chance they were led to what is now known by gool-opiets as Mount Apatin. These they found quite good indications of trurmalines, 1st with their former experience it did not seem to warrunt a great octiley of time and money. So it was abandened and became neglected for a

In 1882 I visited it and found it extrated in Auburn about three unless from the county halidings in a westerly direction. Mr. Hatch, who owned the locality and lived only a few rols from it. gave me a very cardial welcome (he is a very gotial man) and accompanied no to the summit of the hill. Once there I could not help being structed by the grandeur and becaty of the place as I viewed the surround-ing country. When I come to examine the

### E GREAT AFRICAN DIAMOND.

How It Was Found, and How Carried to London.

An Ameter lam correspondent of the Munibetaring Jeweller fells the skery of the inmouse African dismont. weighting and knowled in the reconstruction is to process of being out by Mr. Jacques Helt, one of the largest enas have a somewhat cerious distory, and though its exact hirthplace is only a matter of conjugate to the form miner of the search of the best miner of the best miner of the best miner of the best of the test miner of the best of the test miner of the best of the test of the confecture, it is known that it was found by The base of the correct of the control of the contr The Prince was the set to produce the product of the prince of the prince of the product of the prince of the prin

From Parlland Herald Sept. 3/887

# SCIENCE AND PROGRESS.

Assessed of the Interns the lives on Die World.

marie, the Guest White Discount or the invested to be became a country could be described in detail with 10th trainers, for a life trainer to detail with 10th trainers, for a life trainer of from Verk may. As this to the largest british to the world, the following in me and I finalizations are liers reproduced from Mr. Kardy's communication for the booths of our residers.







In the control of the

If the line crown, which weight 1917 counts, has to a large deep rose, and rost a brillion. The Victoria weeks the line at he weight by 44 hit ments. The Kulmberr weight only

The the firms in the out give the front hard, and this feetings of the street, 14 will be storred that the form is not entirely service of that entire if the good there a man of the place, a minuted trap field the face, we assign he could be to prove the large which of the shows. If he however, a period to faced believe and the show wait he had by a London synthesis is a 1000000.

### THAT DIAMOND SWINDLER.

Parties Details of the Attempt to Avenable for Peles Orders. The afternation and all Mr. A. Berech

on at a dismond last Welmeday was much remain this the stop published that are ing made it appear. The following story player that the sampler haped to get one of Palmer, Encicider & Cal's letter busie, which would have, of crocker, made the recost appear more butters like, and not so main to entire suspense. He called at the same of Messra. Palmer, lackeder to Ce, on Trement street, Wednesday foreness, and saked a monday of the firm if his would sell blue a a mondar of the first if he would set him a street of paper and an envision. He was misseased "that they had only paper with the printed heading of the first a basic with the printed heading of the first a basic and address." (the that will do last as with was life tryly. "But we prefet to one time the the case also paper to our own or traspundance," was the advertised in the other than the street of the first and two man two mandars, and two missings and five missings, bearing after and during the absence of the party who formated the paper, since of the time of Manne Serve and Format a nor of the day of Manne Serve and Format a nor of dealers or Tremeast street, and since a Tremeast street, and since a first and on the street of the party and treet of the time of the street entering the cold Mesons Moses a Long and Mr. Limits from being established Chief Impacts Haussons desires to find the month source bey she did its current for the would be established, is order to get a good description

### THE HARDEST THING KNOWN

Within five years the study of the diamond has developed some of the accordance who this must preceed of an are's formations mys the New York Tomes of James too Onof the source extraordinary of these executives the was brought out recently by his expen-tantial lampy - fruit challengers. In the case, he is record by a considerable of the case the little of war after the mid-purchase bord as Mr. Charles L. Kang, the of en-equation to the lamb to handless we have seend determined to her to handless we have seend The second secon a pulpa is releasance, there is no the dament of an med to releat. There is nothing in taking hard remain in about a social like distance hard, and this is noted found in telling particular.

They have a novel method a 5c. Fool of dearers in the process of the process of the process as not a second to the process of the process as not a common data to a process of the process of and affect the process to a second of the process of and affect to a second of the process of the pro

Continued

brow of the hill, I was more attracted still, as it gave evidence of containing gems. At this time not much work was done, but I soon returned with the firm purpose of bringing to light the treasures if any existed there. we came to blast we found albite, mice and quarts, not what we really anticipated but quite a proof that there was something better there. We also found lepidolite in both wall

and sail, but nothing of any value.

In 1881 Mr. N. H. Perry, of South Paris,
commenced operations on the south side of the hill. The ledge was asvered with two or three feet of earth, in which he found, near the ledge, pockets of tournalines where the rock had become decomposed. Finding that the leage was principle and other minerals were deposited, begreezed a lesse of a strip of land two role wide and four role long for a term of four months. He blasted and the explosions revenied perkets from which he secured for the first month a rich harvest of commalmen. They were found colorises, light pink, blaish pink and light green, and of times all these cultes were from in one erroral. They were somewhat lighter in color than Monat Mica tournalises, yet of a more brilliant polish. Many were more or less fractioned yet even these were valuable cabinet speciment. At the expiration of ementy-five days he found that the mineral-bearing rack (the albits) had disappeared, which so do-beautrord him that he left the field. At that time I was prosperting other pasts of the kill, and even blasted, but found only enough to

heep up a little environment. In 1882 I went there again and met with efter success on the westerly side of the hill. Next the surface I found some beautiful green tourmalines radiated on plates of mice. About ain fret below the surface of the ladge I found embedded in cocker, lepedolite and albite (the most of them in cookie), green noumalines. Some were of unrivalled brillings and equal in hardness and value to an emerald. The soft green of these was very pleasing to the eye, and they lost their lustre maither in sun nor in shade, nor in artificial light. Three were not perfect crystals but in nections; hav-ing no termination like other tourmalines. I did not procure many, but they were wishout

exception fine in quality.

The next sesson, 1859, I went to this locality in company with Mr. Perry. We removed from his old pit shout half of his waste in order to get to the ledge. After making a few blasts and not finding mything to revive his lost faith, he was not long in deciding to give

In 1886 I went in company with Mr. Hatch and we directed our attention to Mr. Perry's abandoned pit. We removed his waste and commenced at the bottom which was ten feet below the surface. One blast opened a pocket containing thirty crystals of tourmalines. We continued to blast, following up the mineral rein which we had discovered until we opened seven or eight pockets, all of which contained tournalines. They were not perfect but somewhat broken, giving evidence that they had been disturbed since their formation. The pockets were limit with quarte or yetals on these sometimes had small bepidelite crystals on them. Muscovite conted with lepidets prothem, Muscovite conted with speckets. We pockets were lined with quartz crystals and Found nome of the deep green calar but they were light green and pink. The light green took a darker shade after it was the. No gem has such a rest range of colors as the tournaline. It really has the colors of other gims. The greens are rather beightened in color by artificial light, while the blues remain the same. I found a little blue in the same locality in which I found the

The composition of the tournaline is very complex. There are cretain elements charge teriadic of it, namely because with teristic of it, namely; horacle soid, which and showing. In all tournalines there is an alkaline base, accordings potash some-times sods, sometimes lithis, or a mixture of There is found in it, also magnetic, in oulde of iron and calds of manganese. The crystals are in form of longtab three stell surcontinued

Between the layers of ledge, which disped to the south, we found a substance, which ap-peared to be sund. Amongst this sand or disintegrated rock we found crystals this sand of distinguished for he pound of formalines. The largest one propured last sammer came from that sand. It is an interesting fact that in scarabing for tournalines, many beautiful specimens of other minerals were revealed to us of which I must not full to

Quartz occurs in crystals which are annilly in color and from one inch to ten inches in length. Some of these are capped or coated with a white opeque mating, and at times penetrated by the colored tournalines and wonetimes coated with fine crystals of aparity. As a found here the spaties was very fine in o It accurs in light pink, purple, light bline, blue green and green colors and the lastre and transparency are so perfect as so make it re-semble at times the normaline found with it. It cannot be used for game as its softness

renders it unfit for that purpose.

Albite occurs here in abundance in places piled together, forming irregular and trianguher spaces. In these spaces and on the other of the crystals are found implement mostly all the minerals described. The other seconstall minerals are orthoclass, burgl, garnet, casederite, autonite, muscoulte, leastporite, cookite, biotite, amblyg mite, airpun and a mixture of orthorizes and quarte forming a graphle gran I waited the smethy at locality on in the have of Stown Output of Lary, in these in company with Mr. Edgar D. Andrews, who dast discovered it some place before. The hill was accord covered with a growth of used and the ledge trouped out in many places. At the place where we proposed to work, the ledge was covered with sail to the depth of 18 inches. After removing a portion, we made a few blaste and opened several small puckets containing small quarts crystals. Not disbeartened or willing to relinquish the search we removed more of the soil, in order to make amother blast, and in doing so Mr. Andrews broke through into a pocket. After extricating himself we investigated and found it to be a cavity nearly four feet long, about one foot wide and twenty inches deep. It was half full of clay or decomposed feldspar and water. In this clay we found twenty-two diswater. In this clay we found twenty-two distinct crystals of amethyst. When first taken out they were of a fine, deep purple shade and very clear. Thinking we had something very rich we carefully packed them up and took them to the house, but on looking at them the next day I found that they had lost most of their color and were badly fractured. The amethyst also occurs here loose in the roll and some very fine crystals have been thus obtained. Mr. Andrews found a group that he saild to Dr. Proch, of Lavell, who values them sold to Dr. French, of Lovell, who values them very highly. The amethyst is colored by axide of manganese, or by from and soda. It was named by the ancients who believed that wine drunk from poblets made from this mineral would not intoxicate, and this idea is expresent in its name. The topaz locality of Stoneham is situated on

Harnden hill within half a mile of Stawe and two miles from Deer hill. The topas was first found by Mr. E. D. Andrews, who in blasting opened a picket containing peculiar shaped crystals, and not knowing what they were sent for Mr. N. H. Perry of Paris. He, after investigation, was not fully satisfied what they were. Some were then went to Mr. G. F. were. Some were them was in Mr. W. E. Kunn, of New York, who immediately recognized them as topan. I had a crystal of it in my possession and it was shown to Mr. T. Sterry Hunt, of Canada, who tiso exist it tapes. All the crystals that this pocket contained were bought by Mr. Kunz. This best-ray is the first in New England that has fare which decod place in the conductor of the conductor. nished good elser, listing tryptals of toper, and thus fer it has produced the best crystals found in the United States. These crystals were considers or family control with general or blue. This is the only porket that has been opened up to the present Large crystals were found to the elevertending some meaning six lackes in diameter and from these crystals pieces have been obtained tiens enough for cutting

Heryl occurs here in Parge crystale and at tintes in contact with the larger topaz which it strikingly resembles. Triplite occurs here, scattered through the rock in masses, staining the topax quartz cleavelandite and associated minerals, its color being a light checolate and close brown, usually with a black costing of oxide of manganese. Montmanilonite occurs in masses that vary in color from a very delicare pink to a dark pink, filling the carriers in the cleavelandite. Committee is scattered all through the cleavelandite, either on crystale of the latter in cavities, or else between the plates of this mineral. Autonite occurs in minute scales on the descelanding. Owner, scents in shundaner, usually of a milky color, Aparite, in small doubly terminated crystals, occurs in the capities, often white in the pentpe and blue or green at each end of the pyromic Plustine fills small cavities in the eleavelendite Musecular occurs in large manner and in her agood crystals that are from two to air inches across and its apparent through the price. Demounte, a curved mich occurs in large shells two inches across, successible for chape. Harderite occurs here, and for some time the miners in working for toper three it every in their warm, not knowing what it was. In time it was programed by some prologist and this being the only locality in the United States. where the mineral is found, it was readily sold at fabelous prices. So high were these prices that it paid the miners well for looking their waste all over specia. For this mineral about workers must have received the ner value of five hundred Selling

In addition to the town and other minerals there is found at Stoneham bergl, of exceptional beauty, in different parts of the town. It is of a rich son green color. The materials in the crystals are the finest that have been found in any American locality. Beryl are also found at Lovell and Albany, the adjoining towns. For the last two years nearly two thousand dollars worth have been taken from these places, most of which have been sold for gron material, some crystals selling as high as one bundred dollars.

I can hardly do justice to the mineral re-sources of Maine in these few pages, which I have devoted only to a few localities. Many others I have visited, from which I have pro-cuted fine cabinet specimens. There are other gem localities in Maine. Two, Notway and Rumford, I have not visited. I am confident there are yet to be discovered beneath the rough exterior of some of the secomingly unproductive localities of Maine, treasures much exceeding in value those already procured. There is evidence enough that weighs in favor

of this opinion.

ARTIFICIAL CEMS.

Artificial precious stones, the Popular Science Monthly states; nave become an inperions armide of trade. The products of sums of the shops would I'most decern an exper, but Us has of hardness is still infinition. The beautiful "French pasts," from which in infine diameters of onine of Land. The major of onine of Land. The major of the same and the same affect, and the serious defect. The major of the ligher like brighter has ween, but had the safety, and these receive to reclibery major, and his so self-safety to those who are not very particular, that there make the notice begins to be tall in the majorate for our self-safety that there made after the large safety and the fewer and the safety and the fewer country, and alm and manupulation. Her fewer country, and alm and manupulation the fewer country, and alm and manupulation the fewer days, to the eyes of the layers, they beyond that cannot be perfectly piver, he hay for proof as Dance toolfy overable overstands of the two leaders arrangement and not on charmen. expert, but the best of hardness is still inful confidence of the period of the confidence of the period o minution, including the chalanter of the spices, with a commission of which as to its photopical cities. Two other is made minute-fromy and indi-mate predicted into the supports strong the came size-sizes with the gentline scores and nearly self-terminess.

Stration for the Melener Americal

### ABOUT GEMS.

From the earliest times, precious stopes have been regarded as having an intrinsic value that has made them among the most desirable of possessions. In the Book of Job, the oldest composition that has come down to us, we are tald that "the price of wisdom is allowe rubics." Salemen, also, says of the virtuens women that ther price is far above rubles" and at the present day a fine ruby still remains the most precious form of personal property to the eyes of merchantus well se of the rate and beau-Lifet.

It would be interesting to truce the reieffectes to game in the literature of allages. They have been especial favorites of the pacts and there is hardly a precious stone that may not be found act in some b-antiful passage of Shakaspeare, or in some memorable text of Scripture.

For instance, how appropriate to the comparison, in King Lear, of the teurs of a besutiful wants to "pearle from diamend drepped."

Othelle says of Desdemuna

"If hearen would make me such another world Of one entire and perfect chryselite, I'd not have sold her for it,

and in his remove speaks of himself or

"One whose hand, Like the base Indian, threw a pearl away Richer than all his fribe..."

We read, too, that"the kingdom of heaven is like unto a merchant man seeking goodly pearles who when he had to god obe pearl of great price, he went and sold all that he had, and hought it."

What are the qualities that have caused precious stapes to be so bighly prized by "all sorts and conditions of mon ?" These qualities may be sammed up in two, namely, durability and beauty, either quality alone would not account for their value. Those gems which combine the two in the greatest degree hold the biguest gank,

The diamond stands easily at the head of all gents on account of its superfer hardness, which renders it the most deraide anhstance known, and its unrivalled brilliancy, whom pr parly out. Its hardness is such that it can be out only by another diamend and pollabol only with its own dust. Priction with any other substance produces on impression on it. It is conshould by interes local and can be fractured by a hard blue but if it escapes these accidents, it will remain literally "a joy fore very

In its rough state, in waigh its form is that of a regular eight-ended crystal, it has very little brilliancy. This quality is developed by the process of cutting and pelishing and is preduced by a proper selfant ment of the angles according to laws which have been discussed by exceful study and experiment. The qualities which distinguish a fine dismond and establish its value are brilling, purity of met-rial and perfection or flundous from flame, of these trilliancy is the most secondal. Emerson showed his usual insight when he

"I hold it of little matter Whether your jewel be of pure water, A rose dimmond, or a white But whether it domestic with light,"

Purity of material, or "water" is the secand essential, these stones which are also seletely white or which have a slight tange of blue being the most highly prized. Stopies from the mines of India or Brazil, technically known as "Old tolas" diam onds, frequently have a blacksh tinge and sometimes command extraordinary prices They are however quite race, se meet of the diamends of conjunctor event from the mines of South Africa while Lave produced many gents of great purity and beauty. During the last ten years many very large diamonds have been found in the African mines, but murly all of them have been more or less "off color," One of the largest of these, weighing one hundred and twenty five kirnts, was brought to this country last year and was cut and polished in Boston. It is probably the largest ever cut in this country and is a gem of great brilliancy. An blea of it site may be formed from the fast that its dismeter in the rough state was exactly

If the diamond is the king of gems, the ruby may claim the title of queen. A ruby of great brilliancy and of the shade of red known as "pigrau's blood" communds a higher price than any other gem. Seek a ruby weighing three or four karnts can be readily sold for a thousand dollars a karat while a fine diament of the same weight would not be worth noon think a third us much. Next to the ruby in value stands the emurald, when brilliant and of a rich, dark shade of green. The supplier, which, with the ruby, belongs to the "corundum" family, is a favorite good but its be intiful blue color can be seen to mivantage only by daylight and should be brought out by contrast with dramouds.

A collection of gems should loclade also the cat's eye, a curious stone marked by a movable line of light, from which it dorives its name: the opal with its beautiful play of prismatic colors: the pearl, which though not a stone but the product of the oyster is highly poined for its histre and parity; and the tangunise, admired for its becutiful shade of blue, like that of a cloudless sky. Perhaps the believer in "inck" will wish to add the mountaine, which though of little commercial value, is thought by some to bring good fortune to the weater.

Much has been written about the superstitions attached to gene, and, even in this practical age, many persons are no willing to wear or even to even an opel to fear that it will bring misfertune poid must young ladies, remembering perhaps the old saying, that "gellow's forsaken and green's forestore," would regard the gift of an emerald rive as an owner of ill. Probable however the correct view of the matter bthat one is "Sucky" to present a fine gum of any kind and can safely trust that the pleasure to be derived trans it will more than effect the danger of any minfortune that it would be likely to bring,

If there are "semmons in slower," perhapour readers can find a Christman sermen in the gens. Not being a proncher, we will leave the gens to suggest their own

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Hronn Boston fournal box 21

The women's shount of the and a but from four South African Wires during the last few years. They were witted at \$20,000.0 to other press d'unest field of the wir. ladir, is also a British presenter.

# OUR DIAMOND INDUSTRY.

A New Factory Established in Boston.

The Manipulation of the Precious Stones.

Peculiarities of the Trade. style and Prices.

Just about two years ago a sketch of "Diamond cutting in America" was given in the Bunalis. The enterprise of a Boston from of jewelers nevertise to that emicle. Since the publication, however, some changes have been made, and now Besten has two diaments. enting establishments the larger being their of II. tubcone & Co., moler the name of the Memeriand-American Diamond Manufacturing Changes, with a lasticy and offer here, and a breach office in New York, Mr. Cohomo was for several years with Mr. Marse, and came from Holland for the express work of solishing discoverie, 24 wheels in seguind to be a drat cloud works are, and, it is glaburd, his the areast of producing the work for which and Pestpe dimental magnifesturers here sequired a world-wate reputation. When we speak of measurement districted, the Mirro no doubt his a circum would, and people armapi be impulse: Are and diamenda named producter Yes and no. The oryside carbon is a actoral present, but the attenued nellilent into which it is formed in the work of skill and set, the result of an intimate knowledge of everything perinning to the erystals worked, and the laws governing the refraction of light by means of poliched surfaces. Indeed, no mere novice wan'd over nece. Indeed, no more novice would were to be to be some in the common and in the work in diamond-making, without sorting a person a power level by it is the thintees, and being entrant is our particular boatch of it by a system of close the common and common to be a street of the common and in the

The Cheavage or Splitting of Dia-

The Chestury or Spillting of Binmeters

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imigh. The first life more in Library have limiting the pears good bledge have been preduced in American. Sometimes as side reason black as facing that combines the necessary qualities to be immer arises from the permise form of the human arises from the first three black for a larger than the first day of the permise form the first three black permise for a permise form that a time black permise for a larger bar always be great by a day or these whose But load a man been received that a traver may are always by grade by it than or those whose bends are at right angles po their tendles. When the darbox is will it is found that the samely working has proved, those on to the flow or directorolog, and that use of the parts is single and capable of height.

RESIDENT PROPERTY.

Be next seek a received normal.

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Be next seek a received normalist and of the law seek around the first cleanage, bette in the name greek from the first cleanage, bette in the name greek from the first cleanage, bette in the name greek from the first cleanage, bette in the name greek from the first cleanage, bette in the name greek from the first cleanage, bette in the name greek from the first cleanage, bette in the name greek from the first clean the portion which reaks within a second, the first within the first is every stany degrees income that the inches is very stany degrees income that the nations of the stock, and it is first the nation rothers the national e gree or suppose alone are vised. Where wavy or strangular, the nation rothers the national e gree or suppose alone are vised. It a large stane has never as small a discoloration of flow in it, it will pay better in sec it i not receive the flow, making two smaller strates, that to fourth it mis one large once in other words, the to fourth it mis one large once in other words, the to fourth it mis one large once in other words, the to fourth it mis one large once in the contact of standards are seen and political greek in a large on a single political greek in a seen to see the standards of standards. It was not seen to the spilling are politically a standards of the standa

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The Work of Cutting Discounts
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and a powerful gives will namble as to use that the same of this continues is the head, inc off town the cryotal the small ostance are when and inc at largest from the same of the powerful to have in continue are from the same and income the matchine, whose present force and lose planks which are the powerful to have in some or a set to make it and the planks which are to a set to make it and the planks are which have to be ground as pointed out. Now, whose it is not expected that

All Betiliants Must Have Proper Pro-

partients, and the complementary more or facilities of the complementary more or facilities are overgond the particulates of higher wall be received as a matter, a well be seen that an address particular that is not facilities that. Therefore, Though matching calling as more range, it is criminal that it is far many county in the same. For emilling the principles is \$1.50 a. Card, and it seems cultiur and part is \$1.50 a. Card, and it seems cultiur and know from \$10.15 \$10.15 a. Card, and it is him hards. He

is expected to return in cell stones about The percent, of the weight he received, and the before in discovering powder. The amount less in pollating to inconsistentially return about the pollating is inconsistentially return about the percent, of their weight in pollation, market able atmosts. After the emitar singes the stones he passed in the return of the return of the return of the pollating in the stiller, we places in upon the gages of the accordance to the pollating to the single stones in the passed of the passed of the stones in the fact of the passed in the passed of the passed of

The Skill of the Polisher

The Skill of the Pallaher to have the complementary instances to have the complementary instances of instances, and the complementary of hard can be represented while the particular of the representation of the translation of the control of th

Continued?

#### The Wooderful Discoveries in South Africa.

by giving in the world an immense number of plants, whitejed the whole emitted of the workers in a number of the general effect passesses on the description of the waste. We are in the balls, in this country, of working upon demands he acceptant dishe would be able to the buck, in tuncondre, of to-larg more discussed to sense
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A dall, off color alone may be mede to leave in good advantage beside a clear and good color show, if better me. The track fully upportable this, and will always, other things bring equal, pure a ingler price for well-on tamps, where is an extent of 25 per cent, advances as an annal stocks. A large number of the stray bettermine is the rate to see med with it year elear, whether is intended and present, are not well on or first clear in the to see med with it year elear, whether is intended and present, are not well on or first clear in the time the time. In Terms a poor quanty of themse there is not seen from a to not knowle clearly where, and are absorbed by the ingredient clearly where, and are absorbed by the ingredient clearly where, and are absorbed by the ingredient clearly in expect. These remains of all the price of a large shall of artifact up the clear of the time to be a greatly embed the ingredient of an edition of price and the order to be increased as the order to be in the order to be increased in the transport to the line. Of opening, we contained particle the ingredient in the price of the large clear of the price of the price of the large clear of the price of the large large clear of the large clear of the price of the large large clear of the price of the large large price of the large large large price of the larg

### The Great Market for Rough Diamands

Men. 18

is London. This great manufacturing centre of the pens is Amsterdam, while the great interfacion of the pens is Amsterdam, while the great interfacion of centre for the city and potastical pens is Parls. The process for rough diamonts range from about 45 a carst upwards. On the pullithest stones that range is some a facility to being all the way from the a carst the list. It being all the way from the a carst the list.

into of eviners in prior, attending to eith, is seen what uniform, they given by prior, attending to eith, is seen what uniform, they given by seen the prior, attending to seen the first time of the seen a curst, a two-cars, since of those quality would be bids at \$250. The Tray chainses and what high-priorial stems are those of a top of the curst, a two-cars, since of these priorisms and what high-priorial stems are those of a top-lane curst.

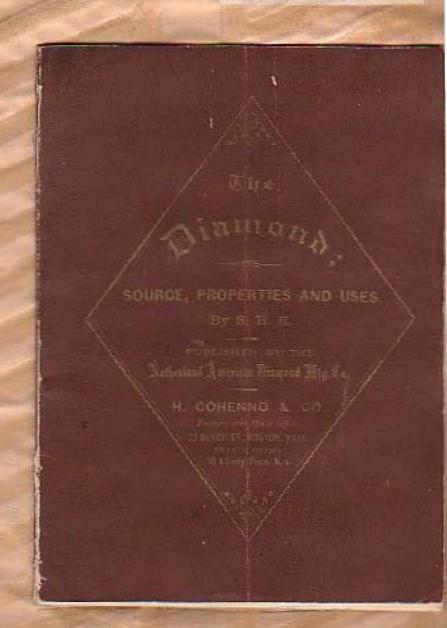


culture

haps their rarity as well as oney peoplar hapt-local color has accepting to do with their cost. Although discussion are the countries of known to extend the world, even they are of discreased in the world, even they are of discreased their sections. The formula or eld mines brills sinter, are considerable branker thank the South Affirms discussion, but and they are as after the desire the seath the best of the African show as the section of the countries are seath to be best one. As African show that we can be set of the case, and they refer soons it had good in all countries as the considerable to be the first section of the countries are considered in the countries as a first section of the countries of the countries.

and 25 per cent the housest, and he mix.

In regard to national trade for the previous gend, it is said by denoted denotes that the Arrivan collected insie in the foregreet is groundly better this list foregree. The main seem to be a cause of princ, if it ware not offers by the representation members because it is necessarily and the product manners being afferred at propose percentages to the great number who do feet the int the difference, they may a non-rest of happiness, and is self-frequency at the control of happiness, and is self-frequency at the interpretage of their seems to be compared distinct control of the proposed of their seems and they fore county at that they not like works making of their mains brother and for here. They may be brother and for here. They may be brother and the heat works making of their mains brother and for here. They may be brother a tradition of the proposed of the lines in the seed of their and the proposed of their and the proposed of their and the proposed of their and their best proposed of t



# The Melrose Journal.

WILLIAM L. WILLIAMS, . . . Editor.

SATURDAY, APR. 2, 1881.

HEARY WARD BEECHER AND PRE-

The Great Preacher's Love for and Be-

A few years since while coming from New York in the winter time on the splendid Steamer Bristol, we were driven by a gale into New Landon harber. Among the passengers were Mr. John A. Remick and his anniable and vivacious wife. We learned there that they were close friends of Rev. Henry Ward Beecker, and as Mr. Remick was a dealer in diamonds and jewels in the Boston Mussian banding, he had a good costoner in the great Brooklyu presider, who was exceed tally food of postical precious stores.

Happening in to see Mr. Bemick the other day and knowing that Mr. Beecher had no more sincers measurer than he, we liste ad for an hour to stories of this distinguished man which have never been made public.

"There," and Mr. Remick, opening his safe and taking from among his diamonds and rubles a well-worn package, "is an autograph letter which you may copy if you wish."

It must be remembered that Mr. Beecher was a great admirer of the moonstone and had a strong belief in the talismanic qualities ascribed to it. Only about a month before his death be sent to Mr. Bemick for a large quantity of them to give away as presents to his friends.

The following two letters we are permitted to copy, never before have they been printed.

Fish, 8, 184,

PORT A RESIDE.

Dane Six-

Please fast check for amount of the spall ring and the mountaine ring. They suited the expertive parties exactly.)

The opal gree to my son's mother-in-law, who puts to should the world while should an authors-in-law. I think call maids and mothers-in-law are in general the very Saluts of the Lacta. I loosed to see you after the lecture, and to have a shake of the hand with Mrs. Remick. But you neither of you regarded the ceremony as "any great shakes," and decomped bastily.

Yours in the bonds of real we, epalt, An., HERO WARD BURGES

BE COMLYN, N. Y. March 11, 1883.

My Jour Erra

As to that mountaine, though it is not so helps as a mountain, so it will require less table to say, be then printed and cast into my poster!

Unserfer a these works Southern brigs, on read Monday, it will be a good thing for look if one ceired before them. Can you seed by staff?

I could render report a chemical marger the St. Stephen, provided I might pick out the stope whosework to be stood.

Yours,

HENRY WARD BESCHERL

Mr. Beecher never indulged his taste for districted by work one, a canary solitaire, weighter three carata, valued at \$500, mounted by Remicky his mania pus for colored stones, such as hypometh, supplies, agas murthe, epole, one evening in Boston atter a long become the west to his room, at the bestel, and there under a gas light refreshed and delighted himself with 200 opais from Mr. Remick, their indessence and beauty amounting him with an atmosphere of pencefulness after two hours of weary talk.

Now, said Mr. Remck, I will tell you a story of Mr. Beecher's generosity.

When the famous actors, Henry Irving and Ellen Terry were in New York they attended on Sanday Plymouth Church, After the service they lingered in the misle to obtain an introduction to Mr. Bercher. This was accomplished and they were cordially invited to disc with Mr. Bencher at life con's house. At the table Mis-Terry was struck with admiration at sight of an aqua marine stoon set in a ring on the minister's line floger. It was a stone of surpassing beauty, a delicrie supplier. reminding one of the ocean him seen or a midammers day sparkling on the boson of the warrs of Nahint or Beverly Farms. Miss Terry raved and pushed over it, it was handed her serous the table, she breard it with delight, "Well," said the preacher, "if you think so much as that of it you may keep it."

Miss Terry was in ecstacles, she exclaimed, "Why, Mrs. Beecher, does be mean it?" and so the soun marine, valued at about \$100, changed hands.

Mr. Remiek among the mementor of his friend has a picture of him taken when only 35 years of age. The form is not so stout but the features are lighted with that same intellect which made him radiant to the last.

The following item bears a similar testimony to the above:-

December 1 April of Juville - Beecher was very find of jeweley of every and. He need to offen period the care of Thannes Schrippinish and re-wange extre his whole shade for house of a time. It begins he have that December was not likely to keep more than the old men would almin. Sometimes like Beecher would effect amor rows stone or old author and put him his poster, saying as be would guarday "New, Tom, when you want more money just weary me "very me." "Tom," as everybody salled him, nenally forget to charge II, all as siden "venerich" him.—Coveryantics or Archellis Species.

Dismond Merchant to applicant for position. "What references have you, eir?" Applicant.—"The surgeons at Hellevin Hespital." Merchant.—"What do they know of your qualifications for my line of trade?" Applicant.—They amputated my logs and supervised the construction of new ones, which can be unbuckled and helps for the safe facing business hours." Merchant.—"Remore your bushs and enter agen your bulles." I develors Weetly. -Nearly \$1,000,000 was realized from the sale of the French crown jewels. The bistorical pieces, which were reserved for the Leaves Moseom, are said to be with nearly double that erm.

### BOGUS CROWN JEWELS,

A Job Put Up on Hayers by French Officials.

The cole of the areas leadle was largely David leat, writer Adelan Houseans from I'd to be the Charage Tribine. This is to are, they were but, to many cases, the grawn Jawale at all. A synchesic of Paris jewellers. got this a numbered with some of the government . Meers in charge of the sale and had a great number of ordinary some taken from their stores, mixed in and sold with the grown jewels. Thus they brought far more than their cedimary value. This jeb was of course, facilitated by the breaking up of the crown jewels, salling the comes separately, and melting down the good, The detectives stated that the sporting walk then said two total mate than 1.1 fed att. which was nearly outlie what they would have all for on their own meetle, finore of home takes present these been traced and their subdivines appetitables. A lew of their west

The second supervision of the second supervision and supervision of the second supervision of the supervision of the second supervision of the second supervision of the supervision of the supervision of the second supervision supervision of the second supervision su

The Japanese Princess who was given a reception at the White House in Washington a few days ago to said to have been fairly alsars with diamonds. They sparkled to her coronet and to the colla of her black hale. They formed stars of glittering light around the black relyet hand which encircled her needs, and they sees and fell in flashes of lustee with the braving of her hreat and sheer in masses upon her wrists. Her does was of Parisins manufactures.

After the concert for Taunties had evening Madame Josh's jewel buy and other particle were accidentably left on the denet solethers at liable? M. A special engine was sent back after them from Manafeld, which made the row of 12 minutes in time for Josh and her party to comers with the passing articles in time for Josh and her party to comers with the passing articles in time for Josh and her party to comers with the teals for French. The jewein were valued at \$5000.

PICNEER DIAMOND OUTTER DEAD.

Mr. Henry D. Murse Pantes Awar at His Home at Januaries Plain. Mr. Benry D. Maree, the picture of the dis-

mode cotting industry to this country, and a well known critica of Business shed at his men some person of French and Mintle streets, Jastates Plain, Senter, from paralysis, (He was fine lakes in the car believ, and his suffice. death was a proof shock to the common Mr. Microway been in Poster 62 years ago.

and he had always resided and done burness

hers. His hither, Heren Morne, was a funn-

make engineer, and his con manny works

samed the trade of sucration on gold and

samed the trade of energine on pell maintenance. He energiad is been as too hereing between the way of the land too hereing between the beautiful writest land that he part of the land that we then the trade hereing because in the land the land for the terminal prescripts, to brain their reads. He then tegan because as a common deep measure and washington streets. About 1850 he tennaged to the retail fewery may use uses under the free temporal to the relationship of Creaty, it indicates the manual of Creaty in the present till of the same holding. The business was inter a member of the same of Creaty to the manual was in the common states. The creates the trade of the same of Creaty to the same of Creaty to the same of Creaty to the common states. The creates the trade of the same of Creaty to the common states the same of Creaty to the creates the trade of the same of the same of the creates the trade of the same of the creates the the state of the s The state of the part of the state of the st

Although Mr. Mersa was one of the beautiful manufacture of Besten, he server held which effect He was an endomain to purchase, and an archeor pale or of no mean about the forest a widow and two descriptors one of whom is Mrs. by, Waller Chandrag of this city.

OBITUARY.

Dis. Haven D. Messer, a will-known ellings of Boston, sped of purchyla Mander. He was purchylaider and a discount rather and dealer, but his very ability was so to mark this that il be ben tote promingate in several other wars. He was noted as a new amount pulsars and an arrient sportsman, and though never to sublified was possessed of many demonstrate more and prepare, and was highly expected. The his business he had few suffrage being and of the Less interes of gracious stotes in the country. having had the especial elettaction and having had the argundal distinction in the results. This latter event of his life results. This latter event of his life led to a complete recommendation of the trade in America. Mr. Mosse was been in Josian all years age. It is interested for the Henry Mosse lamined the art of sugraving on gold and silver, and before he had consider the majority by was currying on a had reached like majority he was carrying on a business of his own. Hater he worked with Clark & Carrier, manufacturing jewelers, and having learned that trade started again for librarit. About 18,50 he took up the retail jewelry business as a member of the firm of Crosby, is a member of the firm of Crosby, is the horse and afterwarfs continued the hurilage moder the narragerable of Crosby & Morse. The firm of Crosby. Merre & Pers, brackers and diamond cutters, was beyond in 1882; unfelling for 12 years and then dissiliting Mr. Morse catalogning lemself alms and so coefficien and last year, when son of his former partners, Ma. C. D. Fore, nearefuled with him and estable the establishment at 120 Tremont street. Mr. Horse's decease rums after as liners of only 100 days' furnise. He less bed his residence in Jamaica Fish far some lines. A wilder and two daughters, see of whom

Boston Transcript

is fire. Dr. Walter Changing of this city, survive

Mr. Henry D. Morse, whost death decurred at his residence at Jamaica Plain yesterday, after a short liness, of paralysis, was which shown and much respected by all who know him. Mr. Marse was sixty-one years old. Although his life was passed in mercontile pursuits, he was an artist and gentus by nature. In early life he followed the pursuit of cramental engraving on the proclous metals, and his work was equal to the fixest English masters; after which he conducted the manufacture of discussed sociating, using only the gold at his factory. For a few years he was eclated with others in the general jewslry losiness, which was distanteful to him, after which, and till the time of his death, he must encountedly transacted the diamend business ness, and especially the cutting and polishing the superior, and had been an authority to all the trade on all matters pertaining to precious atomés. As an artist, in many ways, and especially in landscape and animal painting, Mr. Motre excelled. As a sportsonin and expert shot on the wing he was widely known. As a lover of Nature, and familiar with her in her varied ferms, was where Mr. Morse passed his happing hours. He was genual, thoroughly hourst and true; the father and centre of a happy family, who, with thousands of friends, mourn his loss.

Boston fruit

MR. FIELD WAS THE INVENTOR are setting of the late linears E B W. Booton, date of Line.

Boston Formal Lun 34 18

Poperal of Henry 3. Morec-

The function Hemy D. Merer, to well known to the jewelry frade, took plate this afternoon of in the jessing than, too has not appet because their bir interestation or each appet because their gas C.F. Dole, reste of the Catalan Course, afficiately was at their coth and a simple after plate. Then it were because of resists and wrestless of try.

Among the primition! I walker present with Drug H. Richards, Jr., M. P., Mermand, W. H. Kon-and, Frank Bernis, Charles H. Christ, Latter Brooks, Despuis A. Harmen, E. W. Baller, Spl-venter Create, C. M. Fleid, D. M. Fess, Mener Guille and Mr. Mersele, Remor completes in the diamend entire botters.

### GURIOUS DIAMONDS

Of Many Different Colors-A Buby Worth 880,000.

"A curious diamond in the possession of Tiffully & Co.," said an expert to a New York Times writer, "wearle 6 5-22 carsts. The original weight was 10% carsts, four carsts having seen less to cutting. This stone had is tacets, of which four, of the top and the table, are white, and four are a distinct blacks so the back four facults are white, and the other four and the cubit are black, be the exceptional party and the enter of the party and the enter of the party and the form of the enter of the enterption of a carbon the intime. If shows to find the enterption of a carbon the intime. If shows to find the enterption of a carbon the intime. If shows to find the enterption of a carbon the intime. If shows to find the enterption of a carbon the intime. If shows the enterption of a carbon the intime. If shows the enterption of a carbon the enterption of the ente street, which is of Bradillan origin, was found

invest milled by a chick. All these three are of ladian organ.

"A corbona domain a also in the powerful of ladian organ.

"A corbona domain a also in the powerful of Triangy is to, in a real official at their si fare plants appears knot a, while through it a broadful dark machine in byte throats in every direction. Secretly are along it in a red chy mode with a three miles in three as the street with the property of the product of the same is a fine time in the ladian with a fill and the same is a fill of the product of the same is a fill of the product of the same is a fill of the product of the same is a fill of the same in the same in a fill of the same is a fill of the same in the same is a fill of the same in the same is a fill of the same in the same is a fill of the same in the same is a fill in the same in the same is a fill in the same in the same is a fill in the same in the same is a fill in the same in the same is a fill in the same in the same is a fill in the same in the same in the same is a same in the same in the same is a same in the same

"Are there many je wells more valuable than diamonts?" was asso id.

"A perfect ruby," Mr. Kinnz replied, "of a weight or file carries would be worth \$50.0 keV, while a diamonts of similar weight and enalty would be worth not more than \$5000, Thrank & Co. have powed in a loost ruby stage exhibited on this continent. It welligs nine than a stage of the continent, and is word; the amount named."

THREE GREAT BRILLIANTS.

The prescent diamond you discovered, of 249 estati, writes a London correspondent. not as stated the facul and largest st constructed to Cape." That prescribence is the annihile of the rough districts home in 1954, weigning 457 corner, from fault or hope. It was not have a be-Ash 1 Noor, weighter lass 1 carnin. The Importal has not treed, hence the transment expans giving proceedings to the Regent; but its

aupromacy will come under public notice at the French exhibition, where a place has been secured for is to the place Whomeur, Male

#### DEMS WITH HISTORIES.

Ourious Treasures Gathered by an

Cultures Collector.
A Resource the best desire a day of twoprivate asks of rare and historical bewels and analyses, play of the estate of a collection

"in set at Merty," said the orace to a ew York I need together. The mention the externation for the part of present as been mount the at the patterning dear transceller. In the present the result is 1100,0000, because the other transceller is the what was actually full mart of the presents are presents. At the hands to the current faller that the current faller than the current to the full transceller that the current transceller that the current transceller than the particles because they are made out.

There are 145 specimens in the collection. The indicate price discovery beauty a page of the indicate price discovery beauty a page of the indicate price discovery beauty as a page of the indicate price of the indicate price discovery beauty beauty from the indicate price of the indicate of the indicate price of the indicate of the

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Many the second second process of the second process of the second process of the second place and the second place and the second place and the second place and the second place and the second place and the second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place and second place and second place are second place are second place and second place are se

directed ring increase \$700, one giagne of which would make an Angova of Malices follow mylons, so and the other magon, not such stones are a diver magon, not such stones are pearly made in the 16th henry in home of faither Coronnes, King of orangary awords of Francis I, and Th, with careed very shearly. This best stones and property absolute time stone forms, which may give by shad of Freeze to the Friward Diana, range caused to the faither of the fai

A LABOR DIAMOND,-Crosby, Morso & Ford have just damaged cutting a large African diamond, the firmt ever cut in this country. It is of a cition yellow suler, had great bellinour, and perfect in tiem and and king and is unlimite free from them. In was out by are long and he appeared tree right makes a services, plaint of all the grant at the experiment ending magnification the first and a long piles than the plaint at I am for the service of of which latters beauty for the

#### THEIR GEMS.

Mrs. Baldwin Sherman, New York, her \$100,000 worth of dismonds.

Mrs. Paren Stevens has many thousands of deligra invested in diaments.

The front collection of pourle in the United States is several by Mrs. Marshall O. Raberts.

Mrs. A. J. Drepel, of Philadelphia, has a fortune in previous gents, diameteds being her

At a recent costume fete in New York Mrs. Cornellos Vanderbilt wore diamends valued at \$300,000.

Mrs. Holes-Lord is credited with \$250,000 worth of diamonds, and on largy dress con-tions have even \$150,000 worth at one time.

Mrs. J. B. Hagan, wife of the California millionaire, has a ruby given by Louis, of Bayaria, to Lois Montez, valued at \$10,000.

Mrs. Hetty Green, who does not care a rap for a diamond, except for the cash it repre sents, has over \$150,000 worth looked up in sade deponits.

The first single sopplies in this country is somed by Mrs. William Aster, and her not's book of marrieds and dissected in among the continut jewels in America,

Mrs. Stanford's wanderful jewels are val und at \$2,000,000. Her positions, the finest inthe Cellal States is much \$14,000. It conslots of large blue tint stones.

The "Buffelo gam," a need by a being to B Tab. Is sublitted by the beingest discussed in the United Distance. It was brought in Amster-sium for \$120,000 and weighted nicely-five carele before calling.

Mrs. Highs-Lord has a superb necklass that is said to have cost \$100,000, but from the standpoint of the experts that of Mrs. Stanford, costlag \$74,000, is the more desirable on account of the rarer quality of acone of the

Three American women, Mrs. Mackey, Mrs. John Jacob Aster and Mrs. Stanford, are each believed to own more fine diamonds than Labor; to any of the rural families in Europe, with the exception of Great Britain

It is well known among dealers than Minnie Palmer has been making large lavoriments in dia woods, and she probably has \$25,000 worth of them. The Christian story which the is new the sweet, switch the CREATE, and ever \$40,000

The most enlarged precisioner worm by or American woman at one time were worse on a lung true senden by the late Mrs. John Jacob Aster. They were valued at \$40,000. Ten mounted policemen were employed that night to good Bre Aser to and from the



# Sept. 2 d. 189

Tiffeny's tirest Desmond Bought.

New Youx, Aug. 18.—It is said that the big diamond which is the star attraction of the Tiffany exhibit at the World's fair has been bought by Mrs. Charles T. Yerkes, nife of the Chicago ap his abode in this city. The brice publishes the diarn and is guested at floration in it is made at the will wear it in a stomacher that is now being made for her by Tiffary. The diamond is the size of a small walnut and to the beautiful touch of barely perceptible Minwanit

# Dinmonds # Specially.

The attention of purchases is invited in my large stock of Gems, which I ofter for and singly or in purpole. Being most write in receipt of pursels of rough Diamonda direst from the mines of Brazil and South Africa, which I cut and polish in my awa w riston, I am emilled to keep an hand a heret stock of all stres and qualifies. Horing been the first to introduce the art of Diament cottley has this country, and liverage reals important improvements upon the methods of cutting and publishing propleted in Europe, expensively by the new of the Diamend Cutting Machine, the first and othe muchine of the kind over hivemed and used for tide purpose, I am able to produce game of experter beauty and brillianry. Diamonds in scalings will be kept constantly on land, and Diamonds will he set to enter in any style to suit purghosers.

Dealers supplied on the most favorable terms.

HENRY D. MORSE, Agent,

383 WASHINGTON STREET

(Opp. Familia)

### List of Potcats

Dissid from the United States Patroll Office for the west cuting April 2 left, such bearing that date, for the New Property Welca, proported by Textenanter & Steeres, ediction of perante, No. 13 Exclange street, Personal

T. N. Karlin Westing Road, these shells C. O. Stan, Aurena, Err, bested appears for manin Annal, and Greenwich E. L. type-brilling me-

time
of D. Baserdt, Irrn. Mars., member he stading
with cotton.
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A Style Bower Man Wand below.

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W. Sterner, Street, Wast, combined shallow stop

Character Course, Washington bears.

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to canno polici to cana from hirton, October 1900 and Laires Berliet, October 1900 and to table stat J. A. Trans. New Breath, Cont.

A. t. fare and C. S. Bruner, Fats there, Man, 19th

Hardy Record Theore, Many district house, the Country of the Count

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W. J. H. Westchury, Loru, Man., april mages,
W. J. H. Westchury, Loru, Man., april mages,

### THEY HAVE GEMS GALORE.

Some High American Women Who Have Fortunes in Diamonds.

"At the recent "Venethan Pete" in this city Mrs. Cornellus Vandertitt wore chimonds valued in \$1000,000, wellow a New York correspendent. This suppress as imply as to the probable value of the Gamends were by the women of Armerica, and the part order women who wast them. In hunting this road of log-ferminer caps muses there, Methins, the dress of experts to probably, and does in less in mis liveline Methins for shed mare all mostly them day, and does in less in mis liveline Methins for shed mare all mostly them day where mas is also than law where man is also than law where the missing the world them day where may be a transit them are the control to the world them to the control to the world them are the control to the co probable value of the dumends wern by the women of America, and the particular warmen who want them. In hunting this and of lo-

cla.

Miss isabella singer, daughter of the American sewing machine man, who married from the Cares received search thousand deliars worth of diamonds and points from the tribearoom and his motiver. The gift of the former was a damond than and pourt heckines, and the latter is diamond horizate, all of

free combine pressures green, discussed to display and Mrs. There are A front, Pulsadelphia, and Mrs. Chronice L. Halfrey of Y to water tray, feely can't a feely to discussed a feely can't a feely can't a feely pressure of the feely and a feely pressure of the feely discussed in a minor the entire tray, and the feely discussed by a minor the entire tray of these trays for the control feely discussed in a feely and the feely discussed in a feel of the feel

Tower one three American woman. Mra. Mackay, Mrs. John Jacob Aster and Mra. Standard, Mrs. John Jacob Aster and Mra. Standard, edges of woman is benevated to own three consultances of woman is benevated to own three consultances of woman is benevated to own of the property of the send three consultances of Send Brushi and Emails.

Mrs. Heiner Hearty Hardman files in the send three for the condition of these of Gerta Brushi and Emails.

Mrs. Hearty Hearty Hardman is instituted in the man and the condition of the

thermore has a log towner in these at the party of the first party sales.

The first great value.

The first great water as a local per first town of the first party water at the first party of the

### LOST FOREVER?

New York's Pinest Looking for a Boston Lady's Dinmends.

One of the coverest and boldest swindles One of the coverest and industry swindles that has been worked for some time was played in a west-known Hoston lady during a recent what she made to New York. She had in her possession two beautiful and very calmable dramounds, the pift of her mother but belows the latters. death libe showed them to the friends the was visiting, and ther prevailed upon her to have the stones sat up as ear rings.

As she was desirous of having the best work, and as Tiffian would do it within a few deliars of the intrest figures obtained, she went back to that nones and said she had contraded to have the should got up thory.

She cassed them to the gentleman behind the securist, and was about leaving the slope when he called to her, haring:

"I ber your parden, mattem, but these are not the diamonds you showed me when you were here this marriag."

They corpland and "the regited. "I have no others about mil."

"There's a minute stmewhere,"

"You must be miscater, siz: I am pentite they are the ones I crisinally had with me."

"Where have you been since you left here?" "Ou, to half a district different stores, to get

their trices."
"Well at some one of these places they gave

you back two indistion dramouls and kept the grante one themselves." The last was speechless with estephiness

her a time, but after recovering her democation she inquired as to the best way to proceed to find her lost jewels.

has was told to report the malier to the Coptain of that police precinct, and he would peob ably do what he could to apprehend the thieres

Acting grow this suggestion she taid the whole rate before the police authorities, and they promised to do their utmost to bring the awisdiers to justice.

She remained in New York two weeks, hoping to bear of some trace of the missing game, not a word respecting their whereabouts ever mached her, and she came back to Depter and gave them up as lost forever.



THE CUTTLE OF ANIME.

Melrose Reporter

### MILLIONS IN DIAMONDS.

Extraordinary Window Displays Guarded by Sharp Detectives.

"Dismonds! Dol you over see anything like this display!" These words were spoken by an admirer of the sparkling gems to a gentleman who was showing him the beautiful things to be seen on Brondway. They had been looking in the windows of dealers in precious stones, whose stores are near the postoffice, and where they are spread out in the most tempting way to eatch the eye of pres-

Since I see you are a lover of diamends I would suggest that we walk up no far as the hotel where you are going to stop, and we can, I believe, see more dismonds than can be seen in the shop windows of any other street in the world," was the answer. Then they started up Broadway on a diamond in-

"I have lived in New York meanly all my life," continued the last speaker, many of these gents at one time as are to be seen in the store windows here this winter. I was remarking this fact to one of the largest dealers here only a few evenings ago, when he said in explanation that the success of the experts of Europe in limitating the genuine stones has to a great extent rendered even the finest quality of diamonds unpopular. They can be bought there now fully onethird cheaper than they could ten years ago. In the meantime the love for them in this country has grown greater year by year, and as our wealthy class is continually getting larger the demand for diamonds is stendily on the increase.

"Our dealers find it profitable business to bring them over from Europe. You would be surprised, too, if you knew the thousands and thousands of dollars' worth of these gems that are smuggled over here. There are men-and women, too, for that matter-whose business it is to simuggle diamonds into the United States, and they realize an enormous profit by

their nefarious trade." Ther were walking leisurely up town and stopped to gaze into the window of each jewelry store on they possed. When they had get as far as Twenty-first street the display had grown to be really marvelous. There were diamonds whose sines ranged from the smaliness of the head of a pin to thirty-seven carn't weight, and in colors they were from the deepest crange to the most brilliant steel blue. There was a necklade valued at \$50,000 and brooches at \$10,000. One pair of solitairs stones were noted which were made for our pendants. They were pure white and weighed thirty-four curate each. A diamond crown, which consisted of several stars composed of the purest stones, and which was labeled na having ence belonged to the Empres European, was consponently displayed in a window, and attracted a great deal of situation. It was surrounded by hundress of other precious stemes, and the value of the display in that window slone was estimated at more than \$300,-600. The eye of a clerk imble the store was eccetably on the window, while a

The employment of detectives to murd the outside of windows at this season of the year, when the finest display is made by the diamond dealers, and when the streets are filled with strangers and many thieves, is very common. This precaution is always taken now, since a few years ago a window was smashed in and diamonds of goest value were stolen. New York Evening Sun.

### A SINGULAR STONE.

An account of a strange implication from the seal the way from Kimberley, South Africa. Warkmen in the dismont mines at hat place discovered a stone, dark brown in color and rebout the size of a parver's eye, which viewed he a dark place with a canalia or other lumb behind it, ethiciae a periest or a man from the west up. Juring the penale partially erround, the many of a recently from the feature of a recently face, that out and partly conceased by heavy trained, choose had shown the Ericksh Minister of the feature of the feat

# YIEW OF THE DIAMEND WORLD

Present Centre of the Great Source of Supply.

\$7,000,000 Worth Imported in E ight Months.

Diamond Cul ters Demanding Higher Prices.

(FROM COR SPEC IAL CORPORAGEDERY.)

New York, Det . 21, 1887. Americans take about one-third I of the clamonds of the world now, and thet is are, as a rule, the finest, The crowned heaf a of Europe possess the greatest rarities in precious stones so far discovered, but, with f he size of wealth and posses lation, our comme of for diamonds has increased. During 8 he mouth of August, 1867, the value of import and statute was \$1,100,858. and in 1886, for if to same month, it was \$1,-283,848. During the eight months of the dismond season end ing with August, 1987, the value of the whole comportation of unset precions stones was 1 17,902,077, at against 40, 154,095 for the stome months anding August, 1886, an increas e of \$1,018,192 in value of can stones, noted to for the past year.

A cient idea of the dismond world is by no means general, a rel a summary of the present briends and since a may be enteresting. Espectally so, because I is to lathe prospect of a gigan-D': menopoly in the non very remote time. Thbecause debter on discovered he yet and nown the Cannot exprit will note about whelly from mis centre, to the hands of the organise Tom one content to the handle of one organiza-tion, which be at one to set the prices in the will. Proce 1850 1 to 1870, the price of dis-minate advanced and the rate of should be be contained and the rate of should be be discussed to the content of the character of the transfer agree of the character of the character of the discussed trained of the character of the character of the discussed trained of the character of the c

The value of these 615 tons of Aladdin-like pessessions in the rot agh is \$48,000,000; and out, \$80,000/000 or Energy a dearter of a brillion or had of a by Mon of dollars respectlyely. From, one-full a to une-quarter of the cuties pland of these trines is stolen by the

comine picks of these brines is wronn by the miners, he spine of a Goffers to present W. The great Vicebrands muon from the Arrian miners is use whose or wire is her viced to she wanted to the control of the control of the winds of the spines of the individual claims of the control of the winds of the winds of the control of the contr

we get The value of all the discussion in the world may be probably \$1,000 ft and the line of the world with a surface of the world with a world wit

Libert 6500 Cutters and Polishers. In ric are principally in Amsterdam, An injury, Peris, the Jura and of into, and the reashedly, in: America.

7 3 ist American dismost cutting has become of importance may be judged from recent our failous in the import of rough gens. The part of 1887 has shown a falling set in the value of an errorn is pulsaries. In consequence of this, all length in August. 1886, the values of the some showers imported was \$22 Jan. Obertwick in August. 1886, the values of the some showers imported was \$22 Jan. Obertwick when our was as leigh as \$100,607. Such out of \$41,784 were insected, their fail where was cary \$223,020. The major out of \$41,784 were insected, their fail where was cary \$223,020. The inportance would go down, and so illusted pursuin the world stage being no indication of the hands stage being no indication of the wast walle of the store. The american legical walls will be in the foreign. The diargest diamond in American legical walls of the foreign. The diargest diamond in American legical walls will be a succeed as the foreign, and tipenciably is agreeded in value by inthe foreign, and tipenciably is agreeded in value by inthe allowed announced converse freedom from farming the color of when a substantial price is \$100,000. If it yellow, inhorant, and the proceeds in waller by called the substantial of the called of value, although some specimens are of extracted beauty.

There is no fared within for dismonder the substantial freedom from farming the amount can weighting the same, and both farming one of the substantial for the substantial for the substantial for the substantial for the substantial freedom from farming the substantial for the subs of Importance may be judged from sweat var fatious in the import of rough goes. The

Partitional Expression of 1888

# JEWELS IN MAINE

GEMS OF MUCH VALUE FOUND IN HER HILLS

THE TOURMALINE, BERYL, RUBY, GAR-NET, AND EMERALD DISCOVERED.

Sixty Thousand Dollars Bealized From the Minerals of Mr. Mica.

Upon the Grand Trank milesed, about forty-six miles northwest of Particul, is the town of Paris, the chire nown and one of the most fourtshing villages in Oxford county. In the southwest part of this town is a long ratige of despite hills called Streaked Mountain, from the rugged and denuded appearance of its sides. To the average visitor to this little town, this range. of mountains appears to be but a stretch of harren waste, until for cultivation or any practical use; except perhaps, for pasturage. In late guars several enterprising men have made the surprising discovery that these wild hills, with their broad sides covered with acres of stubble field, are the bidies places of minerals and gems of unknown rales.

The average trader of the Exercise while looking into a jeweller's show case and fracting his over upon the darriby display of themself, rabbes, emerside, parases and other game, finds his thoughts wandering to the fat off climes of Australia, Result. Ceylen and India, conjuring up pictures of the dusky natives, in scant attire, caporly hunting for these gems. He little thinks that right here in our State, within two hours ride of Portland; is the home of jawels that have adorned a monarch's crown.

In the year 1820, two students, Ellfah L. Hamila and Ezekiel Holmes, who afterwards became eminent chizens of Maine. were out on the hills all day hunting for specimens of rocks to aid them in the study of geology. They were descending the western declivity of the mountain and had support for a few moments to admire the beautiful sumet, when suddenly young Hamin rushed forward as his ery caught the while gleam of green coming from a small speck lying in the dirt, under the rosts of an upturned tree. He picked up the small crystal and carried it home. This proved to be a fine specimen of a tourmaline, a stone when absolutely pure and clear is of great value.

The interpreted discovery made by these vouthful geologists erested a profound seneatlor and attracted many persons to the sense. The place where these status were found was called Mount Mics. The land at that time was ewied by a min named Bowker of Paris. Many geologists and prospectors visited the locality but mot with fittle success. It was not until many years later, when the land was purchased by a syndicate, known as the Mount Mick Mining Company, that ney definite idea was gained of the variety and value of minerals and gome hidden in its depths. The most valuable product was found to be the tourmaline. It is a small crystal and is found generally in the form of a three sided prism, and has many difforest tints, the most valuable ones being of a bright green, blue or plak color. The best specimens of the green greatly resemble the emerald, and in fact are sometimes sold as such. They are usually found imbedded in the quartr or fridger and are sometimes three or four laches in length and about an inch in Essenter. The solltary red tournaline is usually very short and not over a quarter of an inch in Jameter. The pink oper are the most valuable and find a ready sale in European markets. It is a fact that in foreign countries there gems are regarded as second only to the diamond, but in our own country they are

I so highly appreciated. It is estimated that the value of the tournalines taken from Mt. Mica since 1820 amount to between fifty and sixty thousand dolbers. One specimen [on exhibition in the British museum in London is valued at one thousand pounds, sterling, or about \$5000 in our money. Another one was sold in this country a few years ago for \$1,000. Among other gens that have been found there are the bergl, ruby, garnet, operath and amonthys.

On the publishers of Anhara, about three miles northwest of the rounty buildings, is a large hill, presumably belonging to the same range of mountains as Mr Mica and of the same formation. This is called Mt. Assatite, from the abundance of spetite found there, and through a singular circumstance it became known that the same gems and minerals were to be found here. One afternoon in the year 1862, a simple minded boy, named Lane, was wandering among the hills, and picked up a small piece of crystal which he thought was glass. He held it up in his hand and was amazed at the sparkling green light emanating from it, as the bright rays of the setting sun flashed upon the gem. He put it in his pucket and carried it about with him for a long time. One day a visiting dergyman. Dr. Luther Hills, was visiting at the boy's bonie and was shown the "funny piece of rock" which the boy had found. He pronounced it a geomore tourmaline. The clergyman wrote to two of his friends. Dr. A. C. Hamilia of Banger and Samuel Carter of Paris, who were interested in minerals, of the discovery made at Mt. Apatite by the boy. These gentleman pronounced it a tournaline and desired to institute a search As first their efforts were not rewarded with success, but in the past few years, although the mine has not been worked to any extent, over two thousand dellars worth of minerals have been taken out. Mr. Thomas Y. Lamb, of this city, and a Mr. Hatch of Auburn, who owns the hill, interested themselves in the mining scheme and here worked there more or less for two summers. They have had two fairly successful sensons, and Mr. Lamb has secured one of the theest collections of minerals and gene to be found in New England. He has many varieties of the tourmaline, from the small crystal just as it was taken from the "pockats," to the finely cut and polished gem as it appears all ready for the market. Fine specimens of garnets, emerable, etc., are also to be found in his cabinats.

These two gentlemen have dur into the mouthtain only about twenty feet, but it is

their intention next summer to tunnel into the centry. Emeralds have also been found in the State of Maine. Prof. Cleaveland, an eminent geologist, claims that emeralds of an extremely vivid and beautiful green has were found in blasting a canal through a ledge of graphic granite at Topsham. The topas is found in Stoneham, a small village situated on Harnden Hill, within a half mile of Stowe and two miles distant from Deer Hill. They were discovered by Mr. E. D. Andrews, who while engaged in blasting, opened a pocket that contained peculiar shaped crystals. He showed one of them to a friend who sent it to Tiffany's in New York. Their expert, Mr. Gourge F. Kunz. pronounced it a genuine topax, and bought the whole contents of the pocked discovered by Mr. Andrews. In Stensham bergle of enceptional beauty have also been found.

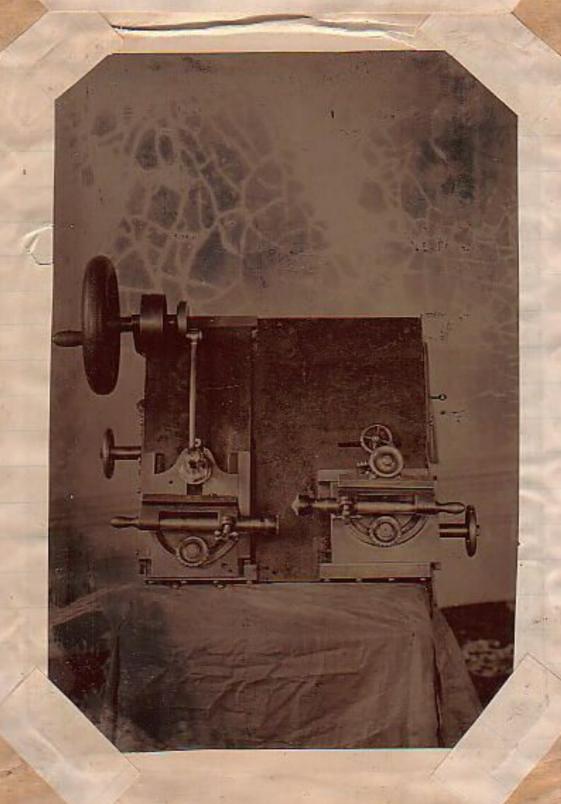
The above named localities are the most noted places in this State where genis and minerale have been uncarthed and sume of them have achieved a worldwide reputation-notably the tourmalines. It is a singular fact that the latter is foundin but two places in the United States. Malne and North Carolina. In the latter place very few have been found and are insignificant in beauty and value as compared to the Mt. Mica gems. Of the precious stones with which our State abounds, pages could be written, but these facts are merely cital far the benefit of those who are interested in the natural advantages that our State possesses, with the hope that they will appreciate the apportunities offered and make an effort to unearth the treasures contraled beneath the rugged surface of the Pine Tree State.

The Nimes of Hydershad resemble bought in Madras a magnificant diamond for leadon furgoes, which is known as the Gordon-Orr diamond. The sizes weighed below cutting diamond. The sizes weighed below cutting of the care and after cutting 21th care in it described as being the lest, purely and most is described as being the lest, purely and wall belillant stone known to counce care, and wall he went by his biginness in his presence or



View of the first Diamond Cutting Machine ever made in the Usnited States.





Chas. M. Flild November and

-A Certainess gen digger is reported to have unconthot at Galle the largest calls are of which there is any record it weighing nearly arren pounds. The finder had been very pour, but a few months ago his director was newspand by finding a cal's eve which he and for \$5000. Soon after he day up another, for which he realized \$15,000, and then his this form stone, which is described as of perfeet lastre. He has been offered an one by a syndicate, but referred, as he declares he can eal the gen late of stones, such of which will bring 1900. His findings in six months will reach \$150,000 at a low estimate.

THE WORLD'S COSTLIEST GEMS.

The largest perfect dramond in the world is now the Imperial, that was exhibited at the Parls exposition last year, and watch is valued at \$1,000,000, says the Ladies' Home Journal. This is the most valuable stone in the world, and is owned by a synthesia. The biggest and best ruby in existence is switch in London, and is valued at \$50,000. It has to be used that the Dochess of Relations of the second train the Dochess of Relations of the Contest train to the any to St. Providers has the Contest train to have a look at R. The baryon and ment beautiful fattery in the world weight all outsides and in the contest to the second train to the contest to the fattery in the world weight and the world to would be second to present the fatter to the fatter train train to the fatter train train to the fatter train train train to the fatter train train train train to the fatter train no marallel, even in the crown bewels, and it \$5000, aggregating pretty meanly, \$200,000,

JEWELS OF MRS. HICKS-LORD.

The beautiful Mrs. Hocks Lord owns not less than \$550,000 worth of previous slones. and the fame of her gorgeons socilises, worth \$121,0000, all of parisonly ent and flawless diaments to thouse the heavy language course, says to have \$1.00 Member of this regal circuit becomes, the owns one

the content of the solution of the content of the c

Diamonds and Other Come.

It is stated that "of the physical diamond outas the principal discount cutting establishments have cessed their operations in comequeens of the engagement rise in the petce of raw distance. The stalement is coldenly fallerism, as the "encount rise" would indicate increased dearends, which would be followed by activity in Amsterdres, and hence may be stuributed to interested parties. Materier, it can bandly be austrined in the face of the enormous and supercodesited production of the South African mines-faring the last ten years, the export sometimes enproximating, according to Post Office statisties, to a ton of range stones annually, ten or twenty per cent, of which may be gene, and quite chough to well stock the market. Added to this tendency of overproduction to keep down the price is the precisity of gens buyers to seek the rarer varieties of colored pack the rarer varieties. stones as now more desirable. These have augmented in far greater ratio than diamonds, incitating also pearls. In fact, as the scale of prices of fine colored gent has advanced. that of dismonds has drouped. It was once said that a good harrest in America meant so many shallings a curat to the Cupe, and wars and paties on the Continental explicages sent down the becometer in the discourt market with sensitive repealty.

Nevertheless, the Enterest syndicate that was formed, with no simest fabulous capital, to control the African diamond market and stay an impending precipitation in prices, It is reported, has met with a large measure of success and thus far has earliched its members. As to the future, this will deport upon the product of that little territory . about sinc unles square in the vicinity of Kimberly upon the Cape of Good Hope.

Most persons enve an idea that the desper Most personn enve and blen first the detper list and is the more rainable. This is a great list attack, for a great deal of the value lies in the sainful manipulation of the great-pointing is in the proper properties and entire manipulation in the proper properties of entire the sainful manipulation of the great are served as a sainful and exact family. There are served and the proper properties by sainful and proper properties by sainful and the properties of the sainful and the properties of the sainful and the properties. The sainful sainful and the sainful and the

### VALUABLE BOOK.

A \$4000 Diamond and Sapphire Bracelet in a Volume of Moody's Sermons-J. Pierpont Morgan Has to Pay \$400 Duties.

(Special Disputch to the Boston Journal) New York, March 28. It was announced today that J. Piersons Margan had been called before the Collector to help arolain a question about a customs selvare. The trouble was all over a diamond and sapphire branches which was sent to this counter from Italy from a brised of Mr. Morgan as a welfilling tresent to Mr. Morgan's daughter, who is seen to be

a brief of Mr. Morgan as a welding present to Mr. Morgan's daughter, who is seen to be married.

On friday of last week Depart Collector John Wilson found in the mains a mackage from haly addressed to J. Pierreau Morgan. The Desauty Collector, thinking that the contents of the earlings might be subject to duty, essend it and found a fine copy of Denart L. Moodr's Sermona on the History Line. In looking through the book it was found that in the content store has been a small masse cut cut of the leaves, and in this space was a little package, excellent done up in twice toucer. The liepure Collector opened the pagazage, and in it he found a diamond and anything through which when appraised was valued at toom. He throught that the person way had seen in did to in leasurage of the content laws and there was so baselined a content. It does not there was so baselined as the form of the content laws and there was so baselined as the form of the content laws and there was so baselined as the form of the content laws and there was so baselined. The Collector received instructions to microst the beautype of the content of the transcription of the content was green to but the advanced to make any commenced about the affair.

One of the easiest and most trusts worthy modes of determining whether a supposed disamend is genuine or false is as follows: Place a hole in a card with a needle or pin, and then look at it, using the stone as a lone. If the supposed diamond is genuine you will see but one hole, if false two will appear. With an indication stone you may also see the lines on the sain of your finger, with the true gem you cannot.

# -- BOSTON, NOVEMBER 9, 1890 -- TY



All visibies to the Medicates' Pair must have nation the magniferent specimens of practicals dismonths and other province storms made in the return-da by the well known factorsable jewsky from 60 Country, Marrie & Fore, of 340 Washington Street. 3 is pleasant to see that the Judges them hi as highly of these wider as the personal public, for they awarded

firm in question two highest prime,—a gold model for their dismond cutting machine, and a sile ver model for their display of alliver wars, jewelr, and dismonsis.

Vol. LXV.-No. 3. Estammento 1845

NEW YORK, JULY 18, 1891.

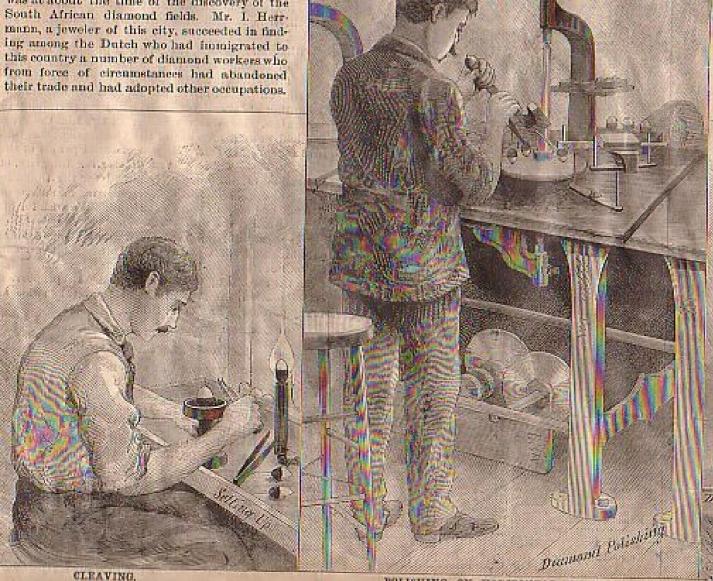
\$3.00 A VEAR.

### DIAMOND CUTTING BY HAND AND MACHINE.

Modern diamond entting is an art which for many generations was practically confined to one city, Amsterdam. In India the natives cut the gems, but they did not follow the rules of shape which have found acceptance with the Caucasian nations. Some twenty years ago the industry was introduced in this country. This was at about the time of the discovery of the

consists approximately of two truncated pyramids placed base to base. The line dividing the two pyramids is called the girdle. The upper portion is the crown, with a flat face called the table on top. Below the girdle is the collet. If properly cut, this shape brings out the fullest possible brilliancy of the gem. So important is this quality, that it was deemed advisable to recut the Kohinoor diamond to develop its brilliancy, although many karats were lost in the operation.

Cleaving consists in splitting off pieces of a diamond. By inspection striations can be detected in the rough gem by which its cleavage plane is determined. The stone to be thus



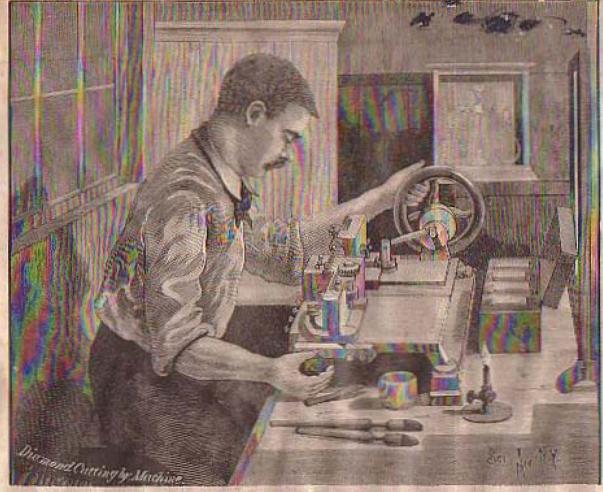
POLISHING ON HORIZONTAL WHEEL, A



He opened a shop in this city, where much work was done.

The industry spread more or less, and is now firmly established in several places in the United States. The jewelry firm of Tiffany & Co., of this eity, among others, have in operation a shop in which diamonds are cut and polished from the rough, and are recut when the original cutting as performed in Amsterdam or elsewhere has not left them of satisfactory brilliance. The work is in charge of the foreman, Mr. Gro. H. Hampton, to whom we are indebted for attentions shown in connection with this article.

The operations of shaping a diamond are three,
and may be four, in number: cleaving enting, setting and polishing. Each
operation is a trade by
itself, and very few ever
learn to do more than one
or two of the four steps.
Cleaving is often dispensed
with; the other three are
necessary. The favorite
shape into which every
stone of any value is workod in the brilliant. This



THE FIELD DIAMOND CUTTING MACRINE.

DIAMOND CUTTING BY HAND AND MACHINE.

ment upon the end of a wooden handle. Upon a second handle a sharpedged fragment such as has been cleaved from another diamond is mounted. The diamond has a little notch made in it by the cleaver pressing and rubhing against it the edge of the fragment. This marks the place for starting the clearage. A cutting box is need in making this notch. This is shown in the illustration in use for regular entting. It is a small motal box from whose edge two brass pins or stude rise, against which the spindle-shaped handles are pressed in the cutting operation. The cleaver holds a handle in each hand, pressing then firmly against the pins and edges of the box. The ends carrying the diamonds projeet over the box. He then scrutches or cuts a notch at the desired place. Next, placing the handle carrying the diamond to be cleaved on its end upon the table, he holds a bluntedged knife of steel firmly upon the notch and gives the back of the knife a

treated is mounted in co-

# DO YOU WEAR DIAMONDS?

### Whether You Do or Not, You Will B. Interested in This.

The W - the Precious Sems Are Cut, Split, Shaped and Pullshed The Principal Forms-Value of Gems and How Determined-The Kohinnor-Artificial Diamonds.

IFROM OUR RESCURAR CORRESPONDENT, 1

Parts, Oct. 28, 1890. I have been looking into the diamond cutting establishments of this restably.

This is an art that Louis de Berquem of Bruges discovered toward the close of the fifteen heentury, and he gave to his tavention all the full extent and improvement of which it is capable.

He and his commanions turned out good, punds, and stamoud cutting became a prosperous ! my, at Antwerp especially,

Today (1.5) city has fifteen diamond cutting factories, with perhaps 1000 landaries and as many apprentices.

Louis de Bergnem also took his art to Amerdara. That fown was then the leading marker in Bur pe for preci us stones, as it now is the easthe of the world for diamond entrior. It is estimated that there are more than 10,000 persons employed there, in one way or another, in this industry, and since the discovery of the Cape mioes hundreds of millions of france have even exceed by them.

France has some elever limitaries, but there has always been great difficulty in creating works in Paris because the orimary material is wanting. The first attempt to establish of moon cutting here was made by Cardinal Mazzein, after him by Collect, and later on by Calonne, and all the governments



THE SPLITTING OR "CLEAVAGE."

since have encouraged establishments of this kind, but there has a ways been the same difficulty as to miterial. Sail there are several di mon : catting works now in Paris, not to mention some established in the prov-

Precious stones or gems are certain mineral substances whose beauty of color, transpureacy, brilliancy, hardness or durability make them much sought after as articles of luxury and adarnment, and ciamonds have greater value than any others.

Now what is a diamond?

Why, only a bit of pure erratallized earbon, which differs from coal mamly by the arrangement of its particles.

Amorphous dismonds—the term is given to minerals whose crystallization is confused, and in general, to all substances the shape of which is hard to determine are seldon met with unless it be a variety of Braylian pebbla cathed "car onado" or buck diamond, and also a few at mes to while the hame of "boot." or "coher cilinual" has been applied. These varieties pussess the hardness of a diamond, and are used for drilling rocks, boilshing nrec cos shows, etc.

Anathyrow these exceptions, the diamond is away a found crystallized, and it is owing to the feet of its cryanis brings ty diamon, and seemiting of his cryanis brings ty diamon, with sides and other seemiting of the cryanish brings ty diamon, with sides and crystallized, and it is owing to distribute the first of its cryanish brings ty dismon, with sides and cryanish brings to great durabilities of his cryanish brings to great durabilities. minerals whose crystallization is confused.

T is nurshilly or hardness is the common characteristic of all precious stones, but the diamond is the

After it the next bardett is the ruby, then comes the sapphire and eastern emersid. which, however, are only varieties of corindon. This cardness of the deamond would render it very valuable for industrial works were it less rare, an I were it not for its high price. Their harders waries within certain limits.
All landeries know that Brazilian dis-

the state of the s



HOLDING OF HANDS POR RECTAGE.

monds are herster than shoes from the Cane of Good flo e, and they will give belt you that these latter stores have their differences of bardless.

Generally speaking, it may be said that him bines will be most beautiful reflections curves and the most beautiful reflections curves and to a similar amount of hardless, for industrially a diamend of the these water is also the history and Albanda is the great heavy man be crushed, and this is the great heavy man be crushed, and this is the great heavy month of the heavy is a way or testing the identity of a diament. When cut it is often confounded with the obise tones of Fr sil, with the write sample, there are these stones weigh heavier then uses the dim mu, this feature serves to discover the difference.

That however, is not the work skilled land.

these stones which heavier than does the dism nd, tails feature serves to discover the diffeature.

That, however, is not the way skilled lapidaries left diamonds, for even in the disk
ther can distinction one from another stone.

They have only to rue the two c years one
skilled feet once in the ear, a ditte
stride of noise which the diameted produces
persons of its being early reconsized.

A diamond enjoys the property of smitting
light in dirknors for certain time—in on avsords it is phosphorescent, and it has placely
appropriate on which belies the theory of good
couting. When a liminous ray strikes a diaphanous or homespared body, this ray, passing through the body, is turned aside from the
course, and becomes broken, or in other
word, is refracted and forms a certain angle
with its first direction, which veries according to the nature of his body. If the Indication of the refraction of a crystal, or any
other transpersed body, is known, it is easy
to calculate the direction or course the luminope ray of it follow which strikes it at a fixed
angle. Now the art of the Indicaty consists
is giving a stone all the brilliancy and cargle
of which it is susception, dath is to sar, he
must cut it is sucception, dath is to sar, he
must cut it is sucception, dath is to sar, he
must cut it is sucception, which is with really
within uself the greenest amount of light
possible. It is by crystally combining the
direction of the lands that he a avacces to lisprison in the crystal she luminous rays that



THE POLISHING.

have penetrated it before rejecting them out-size, and told phenomen a is designated under the a me of total reflection. The angle of total reflection for a crysta-is less great accurating as its index of refrac-tion is the tear of accurating as all substances, a will not be difficult to understand that the implication of the mean and that the implication of the mean and that the implication of the control of times; bence the surprising buildarcy of cut diamonds, and

The Diamond That Is Well Cur. is dimmined with the most beautiful, the most lively cutors.

Toe operation of cutting diamends comprises three phases; splitting, shaping and posishing. All crystals possess the property of easily cracking in certain directions; in the diamond there are three principal and very distinct there are three principal and very
distinct directions, wit out counting several
secondary ones, and distances or splitters can
there ine "threads" of the atone.
A good workman always knows where to
find a thread, and this is the way he proceeds:
The diagnosed to be cleaved is fixed in a con-

Ind a thread, and this is he way he proceeds:
The diamond to be cleaved is fixed in a convenient position at the end of a short stick by means of cement; then to another haton, and, by the sharp print, nod in his left the part in the sharp of a sharp diamond. Taking in his right hand the taken hearing the sharp print, nod in his left the past to make the diamond to be cleaved, he nested the sharp print, nod it is shall have here in a sout of lever, and then the title the rested on a patch is the other, in this way, the first hinner a proofer, the second to regularize the other, and the first hinner a groove, the second to regularize thand the third he may he del in a nest and obtine manner. Then hadden with his left hand the ha on on while it the stone to he said and at the same time a steel kni e, the edge of which is faved in the "thread," o he edge of which is faved in the "thread," o he edge of which is faved in the "thread," o he edge of which is faved in the "thread," o he edge of which is faved in the "thread," o he edge of which is faved in the "thread," o he carped strail for new on the hear of this safe, with a small from sar, and the distinguish of sarry is still, I bid ries have retourse to it when they wish to take from the carpet he is the carpet he is then they wish to take from the carpet he is the "thread of the carpet he is the carpet him a defocute particle, or to tree the carpet him a defocute particle," The carpet him the trant is called "obtained." The carpet his operation, pass to the "brutar," that is to say, to receive a are or form, a d quite in the trant is called "obtained." The carpet his operation, pass to the "brutar," The carpet his operation, and when the required here. This operation poets on over a tree capted as "errisot," here is predicted by the reciprocal wearing ways of the two gens.

The diamonds have a sold or the diamond how er which is terred to the atment of the states of each of the other having doubt and the states of the other having doubt he was a meaning the ope

The former applies to small dat gems, and there are "rese" diamonds so light that 1000 of them do not weigh more than a single

A "brilliant" must be a stone of a certain A "brilliant" must be a stone of a certain thickness; it comprises a main exterior known as the "ranke," and a lower part called the "culears, "and Calingmace of bringging facets must be cut be been these two is as. The 32 opper facets constitute the "crown," the celer 32 form the "partition," Little brilliants have a "table" and a "culeas. " but they has fewer facets than the brilliant property so called There are other-lorents for "manble falle," which halso has 32 unperfaces and 32 below; the "non-recorpe," or "sumple tailie," when presents only 13 becess above and 9 in-health—this form is used for cutting diaments of annal size that are to be set around other stones of barrier shore of bring cut in the share of a bridge, the other neons distributed by the "perre-specials of in the second parts; the "perre a perfall" or "crown" house, really a "recoupe" sold in two equal parts; the "perre a perfall" or "crown" house, really a "recoupe" sold in two equal parts; the "perre a perfall" and the "articlett." This of amound, which was formerly shaped or in midding his milliant. The crown better how are not one not a nest and apprise a small part covered of the nests and apprise surface. The "briodertes" of India are pieceed by a two covered of the nests and apprise surface. The "briodertes" of India are pieceed by a recovered of the nests and apprise special parts the form I doll a pear, with a "muse" and a the form I doll a pear, with a "muse" and a thickness; it comprises a main exterior known

and is covered with facets on the The Trees is first in its lower part, it has 24 facets on the remainder of its contour, at the juncter as pyramidal manus lettrees by the meeting of six of these triabgular feet. Six more triangles, another base to make to the others, have their appex in the minus of the imper 'rabbe,' and the six more left by them are each sat into two feet by them are each sat into two feet by them are each sat into two feet as the same set by them are each sat into two feet by the most of feet and the sat into the same and the

The brilliancy of a diament is so characterment! that German mineral gists have reall! "adamantone brilliance," Usually as are coordes, as well as inasparent in roots, but it coernsionally occass that is y have a title, are cu, veilow, pint or met land, and there are some which are common buck. Moreover they are often removed less valuable by reason of dark or a less valuable by reason of dark or a common buck.

#### Green Dismonds

ent mis peculiar leature that they beme brown when submitted to a strong cal-Cape dispends rependly have a with tint, and this, to a certain extent, the their value. Efforts have been the away this coloration, but thus certainly, though a war has been the raising the repretable that by a notice theory of comparementary. Inside which where a person by white many and of several gave of divers a many there have red, blue and yellow and the companies to companie the companies. They are red, blue and yellow and it is only a mouse of the three transition. They are red, blue and yellow and the transition to companie to the three transition. Now, Care damonds in it only agreement to every the line in the present of the core, and the arms of the transition and the service of the three many than the product of the transition and the service of the transition and the service of the transition of the transitio with first, and this, to a certain extent,

and cadnet be altacked by any mixture sharever, but it is comit is almost note earnon.

I has induced many persons to try
the rarbs use us to obtain a premed it, and they nave purily snomals mess afficial at minus
for and they nave purily snomals mess afficial at minus
for and those of the rea thingmept, very small and always
to the season they be made larger
threse. As naw manufactured,
of the animiest value to commer cannot be any serious doubts
and it up to the present in really
minus have been found of making
and to the pecessities of trude in

minusts.

The Value of Diamonds not presently undergo abrupt foctorsome except under extraordinary circum-In 1866 when the mines of Babia

and their was a panic, and their

town in a remarkable manner, towever, their value has never per increasing regularly.

In the taral, so called from the lean with which malves of the lean is divided but one-half, and one-sixty fourth part of a la personal one-sixty fourth part of a la personal to the least of the ore-sixty whom a merchant weight he lolds he scales in his hold, a said in his lastines have severe that as one-sixty dours part of a latthe said whose in France, it will be said to the said the in France, it will be said to Halfard, 203,750; in 186,206; in Halfard, 203,044; and 186,236. dishiunds are sold in "loty" or "par-

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SI. BI ш

HD 2

see roling to commercial expression; see roling to commercial expression; see rolling to size, and bring the to \$200 per caract. They have about a sign to bell a cut, and the value and sions is unbullated by the probate 1 outline, taking care to consider determined all kinds.

Through a fee also sold by weight in the in parties, and are about \$50 the arm in parties, and are about \$50 the A british of one caract is worth from \$100; a british of 1% counts is 1 and \$200; are findly a brillian; of 3 from \$500; are findly a brillian; of 3 from \$500; a real findly a brillian; of 3 from \$500; a real findly a brillian; of 3 from \$500; a real findly a brillian; of a stouch a state of the value of a dismood, by mind it alterns a weight outside in builts; however, the fill wane rule and other as a leafer to the value of a caract of this came rule and other as a leafer to the weight of the weight of the way that of a solder is not worth an uptue four times as much, but this and quite four times as much, but this

When All Things Are Equal, for immediately a chamond is finited its value becomes greatly leasened.

If we estimate the value of a cut stone of fine water and whibert defect at \$90 the carat, its value would be obtained for mot b plying the square of the weight by 90. For that ance, a clamond of 10 car to 15 wirth 10 +10+00=80000, while a diamond weighling 100 carats will bring 100+100+00=8800.

000. However, this rule is law poly for stones well-sing 100 carats and under. Above that limit it is n-cessary to arrange the equation by another factor, but this is altogether arbitrary. The regent, the hest of all of the French ecoso diamonds that were dispersed two or three years and, is estimated as being worth in the neighborhood of \$2,500,000; but if weighed suc valued by ordinary calca,

lation is would sell for only about \$720,000.

The only instituted throughts that are sold not to be int of polyvirized fire those known as placer's dismonds. To years very small stones, have convex forces and bended edges, the apexes of which are distingtly visible. These dismonds can cit guas, and diamonds, the edges of major are centimear, will only service it. Glazier's diamonds are sold at from \$12 to \$16 the came. Certal diamonds, who is in a halund, crune state are not a spherical form, and winter do not nowseed any "cleavage," camonthe cut has are orderized to make diamonds that are completely opaque, and are of sheep given of sell to say these are also more one diamond day. There are also more one diamonds that are completely opaque, and are of sheep given of slightly redden black, and these are also more one diamonds that are completely opaque, and are of sheep given of slightly redden black, and these are also more one diamonds. The reals are not one of them, with the and of order racks, against which he finest becopered sized has had use edge maken off, are up it and noticed. As for black also not specially and solds and stones, worth from \$4 to \$5 thereart, they are used with soccases in the mechanical perforation of rocks, the bening of mine pits and subsides, the splitting of coils and stones, negative and dressing of our stones. The proceding plays are allowed to of other substances, and for freelengiating.

There are very few are diamonds in the world, not 20 of emissions of size and stones are sold of size engative. The structure of branch experts procedure if he re not a diamond at all, strony a white topes of more than usual size and but himon.

The Largest Dilmond in the taph of Mattan, which is about a third larger than the Konlagor, and for which many years are the Konlagor, and for which many years are the Konlagor, and for which many years are the

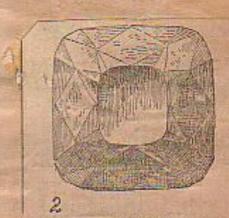
tim, which is about a third larger than the Kondaoue, and for which many years are the rejah was offered a couple of war briga fuffy equipped, and \$500,000. The tempting bld

rejab was offered a couple of war brigs fully engineed, and \$500,000. The tempting bid was refused, on the ground that the stone was incluy, and bound ap with the fortunes of the rajor's dy asts.

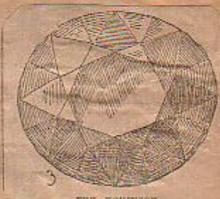
The Kohino et has aless fortunate reputation. It was first discovered in the 17th commy by a pracatal their Gulfoned, and was take from tempty by a pracatal their Gulfoned, and was take from tempty by a pracatal their Gulfoned, and was take from tempty by a pracatal their Gulfoned, and was take from tempty by a print from whom it was again exterted by Auronauda. Nationally, who took the saway from Deblit with other bad, amount her intil to a next the like \$500,000,000,000, was soon after Assassinated, and Sathrood Mirza, its fext comprision to Sate Dourson, the feather of the Africa maybridge bet gentle compulsion to Sate Dourson, the feather of the Africa maybridge, bet gentle compulsion to Sate Dourson, the feather of the Africa maybridge, but gentle compulsion to Sate Dourson, the feather of the Africa of Aurorated Deat Maledied, who knew Z man had bidden the germ asone wider, and wanted it for binneed. Z man are different and amplified the secret of the arone's hiding place to his brother Shoolah. Shoolah, caraphine with the lands of Robellut, the high the first arone's hiding place to his brother Shoolah. Shoolah, caraphine with the preclain gene. From Emplet Singh's success of the Emplishtook it in 1843, tagether with the most unminer, and other the Kathoon to he most unminer, and other the Kathoon to he most unminer, and other the will tring certain rice amon this flat do not below to him. The Himnors firedly rehere the Kathoon with the most unminer into whose langues it is come to be most unminer, and other the rice of Runjeet Singh. The willy old Purjable, this house, bequeath of the most and that it will tring certain rice amon this flat to the trace of Runjeet Singh. The willy old Purjable, this house, the process of the surface of the flat will all as and by the natives of India to be suffice show in the s



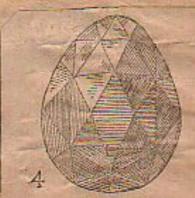
THE OBAND MOGUL



THE REGENT.

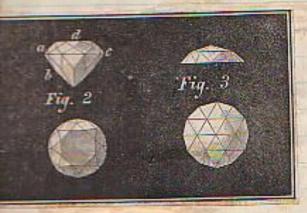


THE ROHINGOR.



THE BANUE







# DIAMONDS OF THE WORLD.

There are perhaps eight thousand dealers in diamonds in the world, who carry in their stack stones worth perhaps \$350,000,th. The remainder are in the hands of in-

it is estimated that during the less twenty-five years the American people have less that duty on at least \$180,000,000 worth of the and other precious stops. In the alone they imported \$15,200,000 worth, the 1884 there was a falling off, owing to times, and the total was only

This does not include uncut diamonds, of which we imported more than \$1,000,000 with in 1802, \$800,000 worth in 1802, and seek his last twenty-five years we have imported \$7.5 we imported only \$129,000 worth of uncut diamonds. In 1890 we imported only \$129,000 worth of uncut diamonds, and in 1830 only \$250,000 worth diamonds, and in 1830 only \$250,000 worth. The large increase of ints has been due to the fact that a number of American few-ders have opened diamonds cutting establishments. There are now aftern establishments in the United States which employ from one to twenty man.

There are 4000 manufacturers in Europe, and about 200 in the United States, who employ between 7000 and 8000 persons as cutture and pollabers. Perhaps 28,000 people are employed in the diamond mines throughout the world. We read that in past centuries 60,000 people were working in some single Indian mines at one time, and perhaps that statement is not exaggerated, since by the aid of modern machinery one miner can now accomplish as much as twenty who used the primitive methods. The total value of all the diamonds in the

world undoubtedly exceeds \$1,000,000,000.

During the past quarter-century ten tons of diamonds, selling for more than \$500,000,000 after outling, have been added to the world's wealth—an amount more than twice as great as the value of diamonds known to exist before. [Exchange.

Firm Boston hanserife Feb. 5 1895

Diamond Cutting in America. An important decision between rival claimants to the original invention of the first and only machine for outting diamonds ever offered at the United States Patent Office has recordly been rendered in favor of Mr. Charles M. Field, a skilful and experienced machinist residing in this city. The sait, which has been long and closely contested, has been conducted in behalf of Mr. Field by F. Curtis, the well-known patent solicitor of this city, assisted by eminent counsel at Washington. The result of the sait has been a victory of great importance, since it vests in the Field machine, which is owned ionally by Mr. Field and Messrs, Crosby, Morse & Fors, the sole and entire control of the art of cutting diamonals by machinery in this country and Europe. This machine, which is a notable example of mechanical skill and invention, attracted general attention at the late fair of the Mastachusetts Charitable Machine Association, and besides receiving very fathering Indorsements of its value, the first prize, a gold medial, was awarded to its exhibitors. In connection with this decision; it will be a matter of interest to the public to learn that the business of cutting and pollshing diamonals on an extensive scale is now carried on in this city by Messrs, Grosby, Morse & Fors, who are successfully using the machine invented by Mr. Field. This business was established by the above-named firm in 180, when, at much expense and with many misgryings, they obtained from Holland, which had held almost entire control of the art, the requisite machiney and a number of experienced workmen. From that time to the present they have successfully carried on the present and three years since. This company went out of existence a short time since, although the business is still carried on those to a small extent; out previous to the dissolution one of the partners had claim which was the foundation of the present and, ching. [Post.]

1896

What a "Pirst-Water" Dinmond Is.

The expression "first water," when applied to a diamond, denotes that it is free from all traces of color, blemiah, daw or other imperfection, and that its brilliancy is perfect. It is, bowever, frequently applied to stones not quite perfect, but, the best that the dealer has and they may be of only second quality. It is almost impeasible to value a diamond by its weight only. Color, brilliancy, outling and the general perfection of the stone have all to be taken into account. Of two stones, both flawiers and of the same weight, one may be worth 300 and the other 11,000. Exceptional stones often bring timesnal prices, while "off-color" stones sell for from 300 to 300 a carrat, regardless of size. The poor qualities have depreciated so much in value that some are worth only from one-feath to one-fourth what they were worth twenty years ago. This is appendity true of large stones of the second or third quality.

A "rough diamond" was recently found in South Africa, which hears so striking a likeness to Lord Sallsbury, that its owner, Mr. Streater, the well-known jeweler, has mamed it after him. Sallsbury diamond is 80 carats in weight, and an inch and a half milength, and the contour of one of its sides is said to recall the profile of the Prime Minister with singular fidelity, considering that it is a product of nature and not of art. Mr. Streeter intends to keep the stone unpollshed, in order that its resemblance to Lord Sallsbury may be preserved. If someons could find a similar gem to resemble Lord Rosebery, there might be an examplification of "diamond out diamond."







Diamonds and Colored

# From The Seekly

THE story of the progress of the diamond from the mine to the erer is an interesting one. It is rally known that all the small manies in the mining district of Africa are controlled by the Beers Consolidated Mines. This any devotes its attention to the and the rough stones. Each the cutire production of rough ared together and shipped by Landon Before the goods are appraised mittee of the De Beers among which are the secutives of the London purg syndicate. Arrived in Lonshipment is deposited with which surrenders it only practically, before

the De Beers Company, select is at present sold to be purchasing syndicate, whom are large shareholded be Beers Company. Upon the goods by this syndicate are spread out upon tables sered according to their difficulties and sizes, constituties of distinct lots.

mans of stuff, consisting of and all qualities of stones, from the smallest to the one of the latter weighing app or 200 carats, is placed manittee of the syndicate waised. This committee is the valuation and fixes ag prices, which being detected the sales are made to all cutters, either for cash any short time, the utmost ag thirty days.

London once a week, genMondays. Aware of this
Amsterdam and Antwerp
tumbering anywhere from
hundred, take the train
on Sunday nights,
presented by these diaters is a very lively one,
mostly the crowd is so
the railroad company
assary to add extra cars,
the travelers reach Lonm Monday morning.

The neighborhoods of Holborn Viaduct and Hatton Garden are thronged upon these occasions by men anxious to get a first glimpse of the new shipments. Generally appointments are made in advance with importers through the agency of brokers, who usually accompany the cutters, and when a sale is accomplished receive a commission of one per cent, from the seller and one per cent, from the buyer.

The purchases having been made, the goods are transported to the cutting establishments of Amsterdam or Antwerp. In these two cities upward of 20,000 men are employed in this industry.

After the stones have been cut and polished they are offered for sale to buyers from all parts of the world who congregate there for the purpose of purchasing, these transactions being carried on by brokers, who again receive a commission of two per cent, one from the seller and one from the buyer.

It is estimated that the yearly production of diamonds amounts to about \$30,000,000, of which the American market consumes from 40 to 50 per cent. It is a well-known fact that this country demands the best quality of stones and the highest grade of workmanship.

The first operation the rough diamond undergoes is called splitting or cleaving. This is necessary in order to derive the best results for commercial purposes. process consists first in determin ing the proper plan and direction for dividing the stone into parts, a proceeding that requires judgment and long experience. The rough stone is imbedded in coment and a dull edged diamond is rubbed neross its surface, so as to leave an indentation that determines the line of cleavage. The operation is then repeated with a diamond having a slightly sharper edge, and finally with one as keen as a rasor. A marked depression is thus made into which a sharp steel knife is inserted. A quick, light and decisive blow divides the stone into two parts.

The next process is known as that of cutting, an operation during which the stone is given its general shape.

STOLEN DIAMONDS IN AFRICA.
Over Element worth of Elements are
stolen every your from the four's
African Element minor.

The stone is then ready for the polisher. He must first determine the location of the "table" and the "culet," whereupon his assistant, technically known as "setter," prepares the stone. He inserts it in a conical mass of molten lead, allowing a particular section to remain exposed. As soon as the lead has hardened the polisher places the stone upon his wheel, which rotates at the rate of 2,300 revolutions per minute.

As a rule he has four stones on the wheel at one time, the stones being held in place by weights. Each setter has from five to six polishers to supply, and as each polisher has at least four diamonds in work at a time the setter has fully twenty different stones to keep in settings. It is his duty not only to set each stone to the best advantage, but also to return it to the proper polisher. As the position of each diamond is changed. in the setting from twenty-five to thirty times, an idea of the number of operations required before the stone is properly faceted may be acquired. Having arrived at a certain stage the stone is sent back to the cutter to remove sharp edges or irregularities that may have arisen during the process of polishing At his hands, also, the stone receives its perfectly rounded form, after which it is returned to the polisher, who gives it its finishing touches. It is interesting to note that a given parcel of rough goods is kept intact throughout the entire process, the product being retained as one parcel. It may start at 1,000 carats of rough and go through all the various operations until it appears as a parcel of gems weighing perhaps no more than 350 carats, varying in size and quality, but all derived from the original parcel.



#### IN THE DIAMOND MARKET.

#### Price of the Gems Said to Be Steadily Advancing.

Two Reasons for the Increased Cost-Diamonds on the Instalment Plan-How Dealers Read Character-Cutting of "Enuty" Stones-Regal Surroundings of a Drummer.

"What's the value of clamonds as compared with prices a year ago?" was asked of one of limited's learning dealers in the precious steam.

"They are nearly one-third dearer," was the reply, "and if the indications can be relied upon, they are going still higher. I have been in the trade for a good many years and have handled three or four bushels of the 'sparks' but during all my experience I have never knows a time when dismones were in greater lay r than now. It seems as if everybody and a perchant for them. Why, I know a hundred young men in town whose salaries are not above \$15 a week who wear stones averaging in east all the way from \$50 to \$100. The greatest ind is in finger rings. with a heavy grown setting. Very few bins are seld in comparison, as the present style of wearing the necktle predludes their use," "How do moderate salaried young men

manage to purchase these gems?" "O, that is easy enough to explain. There are a number of establishments throughout the city which do a big business in selling the stones on instalments, the same as the furniture houses. The plan is to get onequarter of the value in each and the balance in driblets at the first of each month."

"Don't you run a great risk in losing a part of your stock to transactions of this kind?"

Of course, there is more or less chance about it, but long dealing with the public has green us the abilliy to send buman character with almost unerring correctness. Talk about your puremologists defining the business on the cramines, why they are not in it with the Life has all the science of the lake Fred, Fawier, it would be of no practical benefit to me, as the busines on miredustomers' heads round not be got at. No, sir, I have to

Read Character in the Face."

Any particular part of it more than manther!

-Well, I should say so. When a party on instalments the arst thing I do, after settime cut the tray, is to give him a good, long look in the eyes. There is where the secret of his character is to be found. There is no localing up the eyes. If I and that he does not fine or try he competed, it immediately begin to enter-isotonegatiations with him; but in the other hand, if I see that he content mad my gaze shouldly, if indulge in a build parise, and finally inform him that if does not pay to sell ascent for each. You can also read character, to a limited extent, in the carriage of the person. An isomest man comes into your slove and processes uninsullately to the selection, and informs but as to the mature of this basiness, while the cheet and swindler outers like a cut and book from salesman to salesman, as it setting upon the one who possesses the greatest amount of creduity. Su, while he is signify up my altendants, it have taken his heasance, and he never for a moment escapes my eye while he is significant to make being and my succhard distance of any part of the stock. I never allow my successes to misse buy on his body on installatents. That is a part of the business to which it give my specific attraction. If I meet who loss, and one is to blance except agaseit.

"He New York: That is the great diamond." ting out the tray, is to give him a good, long

"In Now York: That is the great diamond centre of the United States, and the money representation of the goals carried by some of the wholesale houses there reaches up going the inflience."

"Bo many of the littlest stones come to this country?"

"No. stri we get only the second plakings of the test ones. Europe is filled with rich out grants who devote these eather time to the the self-ing up the diamond established which the trade shows. Then, are not the trade shows. Then, are not the trade shows of the particles which the diamond metchants.

To Get Them Matched Stones

at any cost, and the prices they are willing to pay would stagger even the Asters and the Vanderhills. He you see there is very little indocement for the dealers to try and make a market for the best of their gens on this base of the Atlantic. A great deal of talk has been boids over the rose dismond of Ninnia Palmer, but I can assure you there are collections in some of the oid English and European families, has positest specified among them being worth four times what almost Palmer rand for hers, and ic. is, be known in London that an old mine stone of 15 carsts has been placed on asis and a mad rush for it, remay to pay any sum asked."

"How is the value of sone of the Atlantic. A great deal of talk

mad rush for it, ready to pay any sum asked."

"How is the value of a diamond in the rough determinent?"

"By experist the same as the head buyer in the slik determinent of a sig dry resus home tests the quality of the dalmond resistance. All the legingr establishments in Amsterdam have their expert diamond testers. They become very proficient in their business, and many of them can cive the value of a stone unaided by a glass. The first considerations are shape and clearness. The trained cya of these experts can also discover a flaw in a rough spine, which, of coline, greatly destricts from lisevalue."

"How long does it take it cut a diamond?"

"A three-raint stone can be but it shape for the polisher in about and a day."

"And how long to polish its."

"The same size stone would recure two days. This is a very important branch of the business, and to become proficient in it requires long practice, a very steady hong and cool judgment as a stone can be easily detreceinted in value by a poor workhale.

#### A Knot Is Discovered

in the gam during the polishing precess. These are time substances as much harder than the diamond itself as you can imagine. They are to the stone the same as a knot in a pice board. When a diamond with these characteristics to discovered, it has the same effect on the polither that the striking of a half has upon a carpenter when sawing a

board. It takes months and months to polish a knotty stone, and I have known a year's work to be put in an one of them. Of course, not of constant labor, but to be picked up at odd those when there was nothing class to do. The polisher has also to quard against chipping the stone, for it should be understood a diamond has a grain the same as a noce of wood and the innest excelsances might result in knocking of a third of its weight. While disasters of this kind are not introquent they are seident the result of hexperience or larity on the part of the workman. When a polishor takes a stone one of the first things be does is to find out the direction of its grain, so as not to cut against it, for if he did a corner would by off, and with trail the profit of the dealer. The substance used in polishing a stone is aliamond dust, mixed with oil. The dust is obtained from the little box into which it falls when the cutter is at work. This how der as you may see is very valuable, as without it there would be no boosthilty of bringing out the beauties of the gen."

"What is the condition of the sione when it heaves the hands of the cutter?"

"It has simply been given its share. When the diamond is laken from the little down the other would be no boosthilty of bringing out the bounder of he share when it heaves the hands of the cutter?"

"It has simply been given its share. When the channel is laken from the mine it as of irregular forth and closely resembles the little white quarrir rebelles so decided on the sea leach. When rounded our hands is not the sone he is not be supposed in head, allowing unly the portion he desires the wheel to much to be exhaused. Now the finest and best work in the art of diament portioning is the putting on othe small face to mit four large ones already referred to. This requires series in this brine, of the trade are well paid and are board. It takes months and months to polish

Princes Among Their Pellows."

"Where is the best dismond cutting and polishing done 27.

"In this country, But understand me, there are so better unthough here than in Amsterdam of some of the other European cities. The difference less in the fact that the Hollander wasts the stone kept as large as possible, not bying so much stress on its beauty as its size, while here we will sacrifice a bell excat he order to bring out all the intent besutes of the rem. We have a number of really expert claimond workers in this country, who are naive born. The initural antitude of our artisans soon pleases them in solvance of their foreign trachers. I have known a gent of great value to be sent here from shread to be dead, as its owner-self-syed a better job would be done. This is a flatter-four reconsistened the skill or the American workman."

"Is there are apparent searcity of claimonds in the manger;"

"Thore certainly is."

"Have do you afternot by ity." "In this country, But understand me,

"There are two reasons one that all the dismondifieds of Africa are in the hands powerful London and Paris syndamics. When they wish to advance prices, the limit the supply, such in answer to a known law of trade, values are changed believe it is the intention of these trues a sension prices said higher. Another channel that has cherated in the dismond market the past few years is the great demanded of the past few years is the great demanded of the monds in that country was entirely continued to the noticity. It was a mark of distinct and the noticity. It was a mark of distinct and more liberal ideas, all Universe, of whatever social or pointend condition, may now array themselves in as many dismonds as their wealth can provide and they be nation dictate.

as their wealth can provide and their meanation dictate.

"I must tell you about one need of a leading Amsterdam house, as it will cause the
travelling mea at this country to wish they
were all sepresentatives of the same denorm.
When he starts off on a trip be have recting
of saxiatants equal to that of the Prince of
Wales. A whole painte carris placed at he
disposat, and his life on the road is not a warless regal than fliat enjoyed by a crowned
cond. He has in his charge a familious
amount of wealth, which is as closely and
carefully guarded as the treasury of the
United States. It's a great basiness, this
pealing in diamonds," smarked the Boaten
man, as he left the writer to walt on a customer.

## AMERICAN DIAMONDS.

#### A Few Choic: Specimens Found Hare, One of Which Was Owned by the Late John Morrissey. Diamonds have been found occasion-

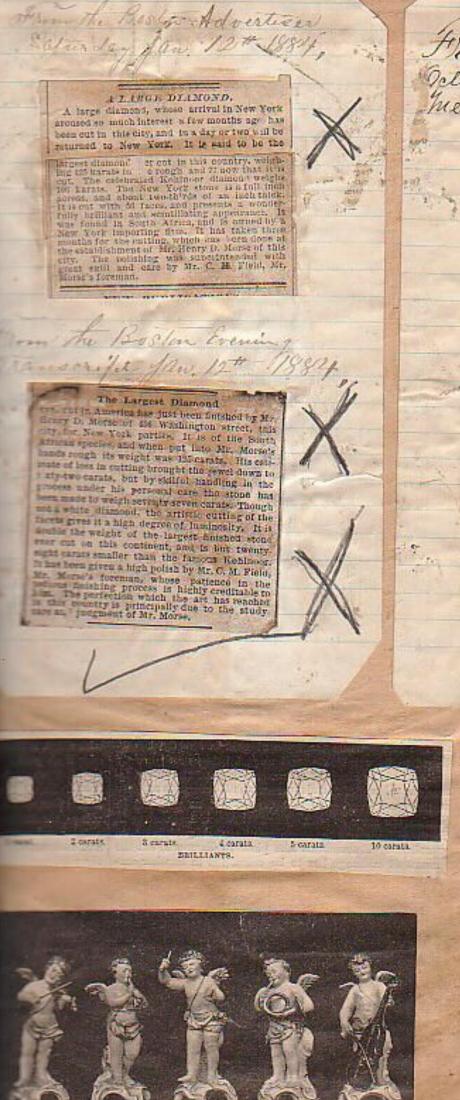
ally at different places in the United States, but never in sufficient quantities to render systematic mining profitable. The largest authenticated dismond ever found in this country was picked up by a laborer engaged in grading the atreets of Manchester, Va.

grading the atreets of Manchester. Va. Its original weight was about twenty-four carats, and after enting, a twelve-carat sions resulted. On this stone, called by Capt. Dewry, its owner, the Onlineor, John Morrissey once leaned \$8,000, but Mr. Kunz, the diamond expert, appraised its value at less than a thousand dollars, as it is poorly colored and imperised.

Next to this stone comes a sixteen-carat diamond found in 1884 at Wankersha, Wis. A stone ever four carangement from Dysartville, N. C., in 1884 and one weighter just a little less was found in Dane Colling, Wis., in 1884 and one weighter last a little less was found in Dane Colling, Wis., in 1884. In Georgia and North Carolina, its columite or flex ble sandstone is found. This stone, so clastic that a slab of it can readily be bent into a curve by the singers, is found associated with diamonds in Brazil, and this fact led to a search for the gens in these southern States. Quice a number of small stones were consequently found there, mostly in the gold washings of Itali Counts. Ga.

In California's gold diggings, diamonds have also been found in some minbers. About seventy stones have been obtained from one locality at the largest weighing about 2½ carats, and the colors varying from fose through various shades of yellow to pure white. The largest price ever paid for a California diamond in the rough was some soo. There are twenty diamond-cutting restablishments now in this country, handling during each year about 31,20,000 worth of stones.

The Hope diamond, which the trus-tees of Lord Francis Hope's estate are desirous of welling, is valued at \$120-00t. It is rather an unity stone, the size of a hea's eng, and blue in color, and is supposed to be the blue diamond which Louis MIV, bought in 1883. This diamond was less in 186.



From the Bodlow Courier, Oct. 6th. 1878, Special Exhibit Mechanics Frais 12th Exhibition

Perhaps the most striking display in the advance of American Industry is to be found in the diamond cutting and polishing machines exhibited by Mr. Morse, a native of Boston. Until that gentleman made this discovery, the trade which his invention hads fair to menopolize was confined almost exclusively to Holland. To the towns of Bruges and Amsterdam these cubes of carbon presenting the bardest mineral surface in the world were sent to be cut and polished by hand. The labor, tediousness, and Inaccuracy of this manual process at once atruck Mr. Morse as matters to be remedied by the aid of machinery and he immediately set to work with the aid of his foreman, Mr. Field, to invent a machine which would cut diamonds by a less inborious and cheaper process. His efforts in this direction met with ridicale from his old foreman a man thoroughly wedded to the laudator temporis acti, still Mr. Morse persevered and whilst, prosecuting his researches and experiments he also made a discovery which in conjunction with the machine has gone to form a most perfect combination. In determining the angle of light to be reflected so as to bring out the greatest brillings of the stone the eye of the workman was all that was to be relied upon in this manual system; the least deviation entalled a loss of brilliancy and consequent loss of value. By dist of repeated experiments and after considerable study Mr. Morse determined upon the exact angle of light which would be almost universally applicable in the cutting of a stone. Having decided this he next invented an instrument which should unceringly produce this ray or light without the deviation of a hair's breadth, so that the workman need no longer trust to chance to obtain the greatest amount of brilliancy that the stone possiessed. Having arrived thus far upon the road of discovery he next proceeded to perfect his machines. He had observed that all large stones in Amsterdam which from their size could not be cut by hand were placed upon the heavy wheel thereby incurring a loss of the powder which last he proposed to save as well as to supply a machine which would cut a stone of any size from a 14 carnt up to 50 carats.

For the last process, viz. that of finishing and polishing, he at once determined to discard the ungainly, heavily clamped wooden table used by the Datch and to substitute a metal one, smaller in size, so fixing the diamond spon it that even with the heavy power used at remained atendiar in its position than on the larger and more combrons invention. Both of these machines are in opperation in Section C in the body of the building where a just appreciation of their value can be easily obtained. Let us now see what adrances Mr. Morse has made in this branch.

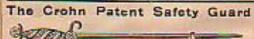
First-By his system of futting he brings out the true brilliancy of the stone to see fullest extent.

Second—He saves the ardwess and painful task of cutting diamonds by manuel labor through the application of a machine which cuts the sizes of stones above mentioned without any physical exertion.

Third With the takes of the atone is utilized for the purposes of finishing and pointing inferences, being wasted.

Fourth-Halls enabled to increase the value of stones by recatting, thus bringing out their true bill-lines; in cases where they have not been properly instead in the first instance, at a trifling loss of weight.

Now when we some to consider that at the present moment the percentage of pure brilliants. In the market is represented by one is ten, it is obvious how valuable such an invention must eventually become.

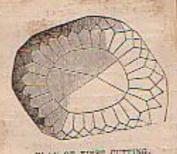




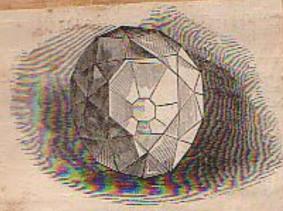
of Soul Pins, Study and Lace Pins. The most practical and only adjustable one invented. Price 81.50 per dox. For sale by all wholesely evelors and material houses. Sample by mail Sc. M. CROHN, makes and inventor, i Maiden Late.



ORIGINAL CUTTING OF THE KOM-I-NOON.



PLAN OF THESE CUTTING.



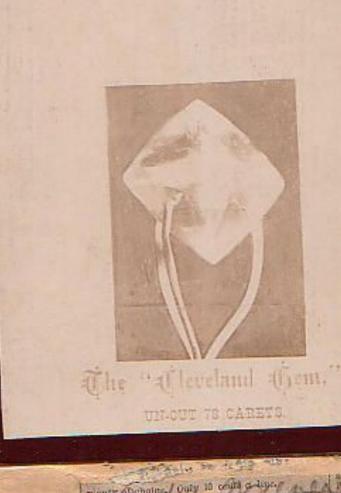
THE SOUTH DOOR, BECUT.

Diamonds so small that 1,500 go to the carat, have been cut in holland.





ORA 1 CT. STO KNIFE EDGE TIFFANY.



pienty of enotes only to cours a leye,

Cutting the Cleveland Gem. If the dynamiers had destroyed the huge diamond called the Rob-i-spor, which is kept in the Tower of London, the eves of the genders of the Porthworld have introductioned to the Porthworld have introductioned to the Covered gent, now usefully 8. Desent, of No. 1 Midden from the first the largest in the Track States and Minyle Palmers offer of Track States and Minyle Palmers offer of Track States and Minyle Palmers of this sec a way begin our site day following shorton and was completed at a place of saturday sat, making continuous work for eighty-mo days for so threed in the care of John Wiener, who that reaghty shaped it by smoothing the covers. He increase a half of south to an iron house and sank the demond in the galler, bavies a life sale bars. The was rested on an iron wheel, which made 2.No every introduct mindry, and dismond-dust mixed with in was applied. The wearing sway and polishing of one facet took from four hours to a day, and the stone was out with 128 inosts, which accounts for the long time regimes. The local courts, but is not at perfect share. The jobal rem will be shown to Gov. Develond this week and then goes to the New Orleans Exposition. to Tower of London, the eyes of the gem-

Cinco District County D.

## HE ART OF CUTTING

-Full Many a Gem of Purest Ray Serene" Is Prepared for the Salesman's Trav.

#### DEEST DIAMOND IN THE WORLD.

-calace of Fabulous Value and the Rare Ability to Drill Through Stones Stringing Purposes - Various Ages of a Brilliant-Different Colors and Shades.

the beginning of history we have but marstories of the influence of distronds, s of large size, on not alone the destinies wals, but of nations. The bistory of any mamond is replete with murder dishonor, and horrors of all descriptions. There to be a certain fascination in a diamond, the monetary value, that evertelts inall he upon the educated and the savage.

or me diamonds of the present day come - Elmberty mines, in South Africa, and the Fentaine mines, also in South Africa. m but a short distance apart the diamonds of my mines are not hear the fine stones and in the Justice Fourthe. From the Borneo, Brazil and India come a few and not of the first quality.

were great diamond markets of the world to-London, Paris and Amsterdam, While some and polishing of diamouds is done in Lon-



Paris, the greater portion of such work for see the done in Amsterdam. It is only recently are attempt has been made in this country to see atones, but with a leading firm of this started in this work, and to-day are permargendent of any outside help in cutting, or setting to the best advantage any stone stock they may have a call, or which they desire as in stock. The designs for the settings are by their own artists, and they are now doing work as can be done anywhere with the manists factory and the most skilful work-

TREOTHER THEFATT'S.

spanied by Mr. Paulding Farnham, a memof the firm and the general manager of the - Separtment, I went over their factory me the method of outling, setting and polish-ALTERNATIVE PROPERTY.

Everything in connection with diamonds is done in the most careful manner. Every stone is weighed, its weight recorded, and after it is out and polished weighed again. Every workman who stors any work either on the stone or to relation to it has his name entered on the resord. So therit has his name entered on the resord. So thoreoughly and systematically are these records kept that any stone in the whole establishment can be inximally and easily traced. In this way any customers of the house in sending stones to be recut or reset have an absolute guarantee that the same stones are relumes to them.

After the preliminary stops of weighing and recording a rough drawing is sent in the cutter. He carefully commisses the atone to determine the grain and best method of procedure, taking every advantage of the shape to produce as much material as possible in a fine brilliant.



SETTING THE DESMOND.

When he finds the grain he looks for the points of the stone. In some stones there are two points, in others three, and never more than four. Now, knowing the grain and the points, that determines him in placing the lable, or upper face of the stone. The grain muse always run into the table to facilitate the polishing of the facets. The purpose of the table is to assimt light and to not as a mirror in reflecting light in the facets of the payllon site back of the stone helow the grade, and which light is main reflected as many times as there are facets in the crown or the top of the stone above the grains. Naturally the facets determine the brilliancy of the atone. The enting and polishing must always be done against the grain of the stone or there is danger of chipping and so ruining a valuable brilliant.

The shape determined, the outter puts the stone into a common or toking. The stick has the same fat body, that large enough for the hand to comfortably grace, with a narrow week and branching out into a best about one-half the size of the body. On this head grees the coment and the stone and when the cement and the stone and when the coment hard has it holds the diamond absolutely stationary. Two slicks, each with a diamond, are used as the criffing le done by rubbing one stone against the other. To beep him in out thing and save the diamond dust, which is afterward used in polishing, the cutter has in iron box sight inches in height at the front and three inches wide.

The slant to the box gives the cutter opportunities as the claim to the sight at the four and directions.

The slant to the box gives the cutter oppor-innity to move the sticks in any direction. In order that his hands may be steady and exert all their force keeping the stones together, two



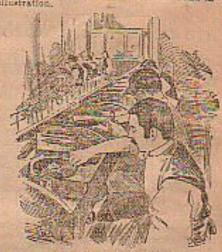
SCHINDING STONES IN BOTTOM.

hease uprights about one inch high are inserted in the signification of the bor, about three inshes from the fromt. The top surface of the bor is divided into two compartments—one as the back, about three inches wide by one and a half finches long, with a stoling top to hald the diamonds to be cut; the other five inches long and the width of the box, with a movable fine sieve about half down

to catch the dust coming from rubbing the two stenes together. This dust, after going through a fire sieps, is received by a small drawer which comes out through the front of the box. The entities in the most imperiant and hardest part of the preparation of the stone. From the constant rubbing the fingers become disagured and knothed, and to save them in the heavy blocking of a stone a small machine has been invented. Guly two of these machines are in use, and the only one in this mountry is at Thinary. The machine works on the same principle of rubbing two stones together as the store, but cannot do such the work as it done by hand.

In the retirement mare.

The polishes takes charge of the stone after if has passed through the hands of the cutter, and indeed his work from the condition of the stone when remained. To polish the stone with malmanical exactness, as has to be done to get the best effect, the operator has a wheel—or "lapp," as it is established the operator has a wheel—or "lapp," as it is establed, and has to run with the lines possible friction and he perfectly inthreed. In order to get the least friction sither and of the spindle of the lapp tools on a small piece of lamp wide sith rated with inbricating oil. The polisher has a little cup shaped piece of lead, with a conpressed thas lapp tools on a small piece of lamp wide sith and the claim of the claim seen under his hand in the illustration.



DUCKWING PRECEDES STORES.

This clamp insures the dramond being held in a steady position, and by weighting it any amount of pressure can be brought to hear on the diamond, On this large is used the dramond draft made by the criting, and so practically but little of the valuable stone is wasted. The greatest care is taken to present the drapp getting heated and this is done by repeatedly dispone it in the small rub of water that stands in front of the polishes or the table. If the dupp should get heated the metal holding the diamond would asfer and the stone get threat either fracturing it or cutting it uneventy. In polishing the girdle of the damond is never toduced, as this determines its size and come-quently its value to a certain critient. Never more than four clothes are put on the large at one time as the polisher has to be on the abert to prevent the dapp heating from the rapid forclutton of the hipp. In the case of very fine work two stones on the dapp heating from the stape for copper so that it may be bent and thus present a different fact to the large without removing the diamond from the dapp.

The stone after the polisher has finished with it, is given to the design and a quantity of gold, is given to the designer's department and the design made of which it is to be a part. The diamond, with the design and a quantity of gold, is given to the diamond.

The stone after the polisher has finished with it, is given to the diamond.

Now comes a most important peri of the work in making a perfect piece of jewelry, and that is the sating of the slone into the gold. The setting must be done so that the bender of the gold only lap sufficiently to scenar the stone and not to take alone is put on the end of a cine staped sitck to shelled, and as thus hold perfectly the stone and not to take alone is put on the end of a cine staped sitck to shelled, and as thus held perfectly their persons he as the diamond is correctly put into the hold in the diamond is entered by perfectly the diamond, as the bottom, so when the top is held firmly t

room.

Sapphires and rubles are cut like diamonds, by the use of the sticks, but polished in a copper lapp, materal of our made of grn material Ropey powder is used in place of diamond dust in the polishing. The same number of farsets in crown and parallon are our on diamonds, sapphires and rubles. Emeralds are very often out with the old fashioned step, out with diamond pavilion and using a polishing copper lapp and guby powder.

No one has ever concessed in discovering the causes that produced a diamond. No one has ever produced a diamond, although the ciamond has been analyzed and every one anows that it is pure carbon. In the same mine will be found diamond, or almost swery thade of color as well as the partectly waits some. Speaking of these colored diamonds, now so fashiousble and in such demand for ond rings, Mr. Furnham said yesterday:

"While no one knows positively what caused the sarbon to orgetallize into a diamond, it is thought that the nest crystallization is absolutely white. Then by the action of nature in alternate heat and cold the diamond was sent through the whole samule feels, the diamond was sent through the whole samule feels, the diamond was sent through the whole samule feels, the diamond was sent through the whole samule feels, the diamond was sent through the whole samule feels, the diamond was sent through the whole same black diamonds have been on the wheel for rests without making any visible impression on them. The stomes are feeled in all colors. I will show you," and taking from the safe little square parkages of Listve paper Mr. Farnham unrolled them and with forceps laid on a piece of white paper first a perfectly waits clamand, and them in shoresaion a bine-white, a pink, a green, a tim, a very rich dare brown and a black.

"Now the shades of some of those stones," con-

very rich dark brown and a black.

CHOOM AND SHADES.

SOW the shades of some of those stones," continued its, "are so delicate that one not actuatomed to them would be unable to tell them apart. Three the straw and the margold. Beparately you can haraly see the difference. The thom down together and the difference in color is instantly perceptible. For these stems we have equally as many colors of gold. The color in the gold is controlled by the alloy used. The different shapes of these stones is permisely interesting. All colored stones are cut in fancy shapes. There is a bribist, there a pear shape, there a square, & songon a come, a clbe, dith one of the ends drawn out into a point. The elliptical ary the double rose cut are very fashionable and much used in fancy rings. We are to day making un as uniny and as beautiful fancy rings at were ever made in the time of Louis XVI., the time of the rage for fancy rings.

A BRACTITUE HECKLES.

"I have a necklars made of briolet shape dia-monds, with drilled points, that I want you to see," said Mr. Farman, ringing a hand bell. On being told what was wanted a messenger brought in a blue box, inside of which around a circular plat-form was the necklase.
"That is as the a missist work as

blue box, fuside of which around a circular platform was the hocklace.

That is as fine a piece of work as can be done in Enrope. The mounting of such diamond only opters the extreme point of the diamond. The hole is so entill that a piece of sewing tilk will just go through it. The hole is drilled with diamond dust and a small piece of tempered steel. It is were laborious work, and only two man in the world to-day can drill diamonds. Their names are not even known, and a few firms control their work. It we wanted a diamond drilled was could not do it cursaives but would be compelled to send to Europe to the firms control ling the drillers. The criginal cost of drilling in justs pone by was much lass expensive than the work done to-day. Those stones have probably been drilled for over a hundred years.

"The kind of work? Why, the mounting is called enamelled and pild transry and is healy as fine a piece of work as can be all the private collections, and you would not find a more beautiful piece of work in any of them, not even excepting the missions and you would not find a more beautiful piece of work in any of them, not even excepting the missions.

Another man test soul internal to you is the cleaving of diamonds. After the cutter determines the table and girdle of a stone he probably sees that he can cut of quite a piece and not injust the size of the stone at all. This cleaving is positive of the stone at all. This cleaving is positive the size of the stone at all. This cleaving is positive the circular decisions and you would not injust the size of the stone at all. This cleaving is positive the circular decisions and you would not injust the size of the stone at all. This cleaving is positive the circular decisions and you would not injust the size of the stone at all. This cleaving is positive than the circular decisions and you would not injust the size of the stone at all. This cleaving is positive to a stone at all.

is runnes the table and girdle of a stone he probably sees that he can cut of quite a piece and not injure the size of the stone at all. This cleaving is pullished up and used as a covering for maniatures, and is called portrait brilliants. We have them here all the way from the seried a small Franch per to that of a ten cent place.

"We have a large stone here," concluded Mr. Farnham, "called the fridant yellow double decked brilliant, weighing 136% carate. It is the finest and largest yellow diamond known in the world. It is nearly twenty carate inger than the celebrates Echinoor. Yes, of course it is for sale, but it is meatly expended over over \$100,000.

practy expensive-over \$100,000,

## Flawless Diamonds.

A diamond is valuable according to the glorious beauty of its perfection. It feeds your eyes with much pleasure in beholding and is a treasure of intrinsic value to its possessor.

Gems that are flawless and brilliant in color have a constant value, and as a personal security they are unequaled.

It has been quite noticeable during the last 12 months that diamond jewelry has been selected largely as "wedding gitts."

This is practical giving. Flawless stones. never grow out of date, and are always worth the money originally invested .

### DIAMOND FINDS IN AMERICA.

Brilliants Discovered, but Not in Paying Quantities.

Just Ennuch Revealed to Make Diamond Swindles Possible - Gems Found in California, Wisconsin and the South-How a Bostonian Broke up the Diamond-Cutting Monopoly.

OWNER WER SPECIAL DOGSESPONDENT.)

WASHINGTON, D. C., March 22, 1894. At long intervals the chief of the mining division of the United States geological survey receives letters from people in the South or West telling him that an American diamond field has been discovered. Dr. Day turns the correspondence over to the expert in precious stones of the bureau-George F. Kunz of New York-and he investigates the claims. Not that he has any faith in the statement that there is a dismond field in the United States, but because he knows from past experience it is quite possible that stray diamonds have been discovered, and it is altogether likely that they are of value. But Mr. Kunz does not make any trumpeted announcement of the result of his investigation.

The chief use that has been made of the discovery of diamonds in America has been to swindle the credulous by all sorts of confidence games. Twelve or 15 years ago some sharpers "ealted" a piece of country in the wilds of Arinona and organized a stock company to work it for diamonis. The swindle was planned on a large scale, and several thousand dollars' worth of rough dismonds were scattered about for the benefit of the California experts who were sent to the spot by the syndicate which was organized. These experts were descived into making a favorable report, and a company was organized and many thousands of dollars invested in its stock before the found was exposed.

Three winters ago a find of diamonds was reported in Idaho, and there was a rush of fortune hunters to Bolse City. The find proved to be quarts. No one is known to have gained anything by this deception, and it may have been innocent.

Still later some swindlers salted some property in Georgia. They did not make a very heavy investment. They put in only two diamonds, and one of these was sent to Mr. Kunz for examination. He promptly informed the senders that the diamond was never found in Georgia; that it was a Brastlian diamond which had undoubtedly been brought to Georgia for dishenest purposes. The Georgia swindle was not a success, thanks to Mr. Kuna's remarkable knowledge of the minute differences between precious stones. There is probably no other expert in the world who has so quick or certain a perception of the value of precious stones and particularly of the diamond.

Mr. Kunz has called the attention of the geological survey to the discovery of two diamonds in the United States in 1803. One of them was found in the village of Oregon, Wis., and the other near King's mountain, North Carolina. There were two small dismonds found in Butte county, California, during the winter of 1807-30. These diamands, like most of the diamonds which have been found in the United States, were

PICKED UP BY CHANCE The Wisconsin diamond was found by Charles Devine while he was hunking corn in a rough stony field which had been under the plough for 40 years. It was in a bank of clayey earth taining a great many quarts petition This was the second discovery of monds in the neighborhood of Oreg-Wis, but Mr. Kunz, from his knowedge of the district, reported that a any diamond bed in the vicinity. The

CO DINOLA

was altogether unilitely that there was any diamond bed in the vicinity. The North Carolina case had many precedents. Diamonds have been family in that state in the search for all since 1800. In the Butte country trief of California, they have known since 1850. The first authenia report of the discovery of diamonds California dates from 1850. This during the early gold-scaling days. New England clergyman saw a manderystal which he identified as a allowed in the hands of a miner. Most the American diamonds have been the covered during the hant for gold one locality or another.

Diamonds occur in the United States in two respons. One extends along to southern base of the Allegheny momentains from Virginia to Georgia to other on the western side of the Siems Nevnds and Cascade ranges in sorthern California and southern over the mineralogical conditions in the two remoth regions are very similar and the discoveries made in them much alike. The formation in the diamond-bearing localities of the United States are very like those of Erra and India, and very unlike those South Africa, where the great diamond fields of the world lie. It was this libeness of conditions in California to the states are very like those of Erra and India, and very unlike those South Africa, where the great diamond fields of the world lie. It was this libeness of conditions in California to the world he allowed to escape with the world sea and that there was danger that they would be allowed to escape with the world sea guarts by the gold mineral localities of California. The mineralogical indications falls in another quarter, however. Dr. E. Lewis read a paper before the British Association at Birmingham in September, 1881, in which he said that he had found in Kentucky registration.

tember, 1881, in which he said that he had found in Kentucky peridative firming to that which occurs in the kind berley diamond mine in South Almandi that he was convinced that asarch would reveal the presence diamonds in that state. Mr. Kunn at presend the opinion that the peridetricalong was not a sure indication of the presence of diamonds. Nevertheless, he and another representative of the geological survey we into Billiott county, Ry, in 1885, and spent two days searching in the neighborhood of the discovery of peridetric No diamonds were found. It was preposed by those interested in the search to equip persons who lived in the neighborhood with rough diamonds set in rings so that they would know a rough dismond if they ever saw it. Probably a great part of the population Elliott county went about with

for many months searching for monds; but up to the present time == diamonds have been discovered there The only diamond found in Kentucky so far as known, was a vagrant found by C. O. Helm on the farm
Henry Burris, user the Cabin For
creek, in Russell county. While waling through an old field, Mr. Helm
a small bright stone in the gravel.
picked it up and carried it home.
examination it proved to be a diam
weighing only sever-sixteenths
earst, and a little off color. This
was made in 1833.

In 1835 it was reported that a number
of diamonds had been found alone to
Sagamon river, near Springfield, in
but Springfield was so near the repordisproved very quickly. No genue
disproved very quickly. No genue
that section of country.

It is known that diamonds were found
in North Carolina as early as 1500. But
the only detailed once of record is the
off a discovery made in 1835 an
Alfred Bright farm at Dyscraville
boy, the son of Grayson Christie.
urawing water at the spring on found by C. O. Helm on the farm

farm, when his attention was
i by the brightness of a stone
pring. He jucked it up and took
It was so very bright that
reste and the neighbour thought
is be a diamond, and they sent
many in New York. Mr. Kunz
it and it proved to be a diaquite perfect and transparent,
a grayish-yellow that. Its value
uses \$300 and size in June folthis find, Mr. Kunz was in
arclina and be took occasion to
nate the field of the Christle
betwery. He took up the sedithe bottom of the springs and
if carefully, but found no
if the usual milaeral associates
is mostly be concluded, theremat the gem had been washed
rem distant higher ground in a
Mr. Kunz, while in the heighalso took the opportunity to
some other stones exhibited
code, found at Brackettstown
in that they were a smokyquarize of great brilliancy of the
aracter as some quarts which
and some time before by Capt.
The all Brackettstown, and conficuerted to be fine dismonts.
It also found that the swindler
is his way loto North Carolina;
the diamonds from South Africa
as shiblited as North Carolina;
the diamonds from South Africa
as shiblited as North Carolina;
the diamonds from South Africa
as shiblited as North Carolina;
the diamonds from South Africa
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as shiblited as North Carolina;
the diamonds from South Africa
as shiblited as North Carolina;
the diamonds from South Africa
as sme year that saw this in-

A GREAT EXCITEMENT

ted by a man named J. S. who, while digging for coal men, Neb., discovered what he a to be a diamond. It proved to dess quarts:

the farm of Daniel Light, 13 with of Atlanta, Ga., found a

H TO "DIAMOND BASIN," Smalle river, on the report that and discoveries had been made Three discoveries proved to be MAPPE.

amount of excitement it has the actual production of diaContinued

ridiculous. From 183 to 1832 inclusive, the secological survey records just filtree years in which there have been dismond discoveries of any money value. In 1884 the production of dismonds in the United States was 3301, in 1886, it was 300, in 1886, it was 300, in 1895, it was \$135. Last year was the first shure 1886 in which the discoveries of dismonds could be rainked as productions.

In the past 25 years, says Mr. Kunr. 10 tone of diamonds have been added to the world in diamonds have been added to the world in diamonds in 1870 was less than cutting, and more than \$32,000,000 after cutting. The estimated was the of the world in diamonds in 1870 was less than 180,000,000. Of this controlled more than also that the principal diamond. Sold in 1870 was less than 180,000,000. Of this controlled more than slatestarths. The Delicers company mined and sold in 1891 more than \$12,55,000 worth of diamonds. The company's profits for the year amounted to about \$7,500,000. The cost of producing the diamonds has been reduced bearly 10 per cent by improved methods of mining. The diamond houstry keeps busy 18,000 people at the principal diamond centres are diamond cuttars and diamond traders. At Amsterdam shoot there are all large and 50 small factories for cutting diamonds. employing about 760 people. There are diamond cuttars and diamond traders. At Amsterdam shoot there are all large and 50 small factories for cutting diamonds. Employing about 760 people. There are diamond cuttars and diamond traders. At Amsterdam shoot there are all large and 50 small factories for cutting diamonds. Employing about 760 people. There are diamond cuttars and diamond traders. At Amsterdam shoot they would be swell as well in the production of the world, and the history of the world is wealth in the production of the world, and the large of the Links of the years in the world, and they cuttang industry of the world and the world swell study of its geometric relations, and by cuttame skillfalmess and astrott manipulation, succeeded in produc

A DIAMOND CUTTING HOUSE Dutch workmen were employed at first under Mr. Moran's supervision. The art of diamond cutting had long been kept a secret by the Dutch. Mr. Morse quietly sained a knowledge of Dutch methods, and, establishing a shop in the suburbs of Boston, secretly trained a number of apprentices. One day the Dutch workmen struck, Mr. Morse Dutch workmen struck, Mr. Morse turned them out, and put his American workmen in their places. Later Mr. Morse taught the art to women, and they became workers in this industry, not only in America, but in France, Switzerland and other European countries. But the initialion of Americans into the mysteries of diamond cutting was not the most that Mr. Morse did for the trade. He set a high standard for his workmen, ite taught them to cut the gams with mathematical precision, instead of hisphazard, as was the custom abroad. The fame of the American cutting become so great their many fine diamonds were sent to this country to be recut. The example of Mr. Morse lad to the improvement of foreign maisons, and elevated the cutting of diamonds from a mechanical trade to an art.

America can also claim credit for the first diamond cutting machine, which was invented by C. M. Field in Mr. Morse's shop in 1322. It has mide it possible to cut the stones more rapidly and with mean precision.

But with all the improvements in the methods of producing the diamond, the reduction in the cost of mining it, if has a fixed value witch changes but little from year to year And the consumption seems to increase with the production. The United States imported diamonds of the value of Higgsian in 1331—more than has ever been imported into this country before. turned them out, and put his American



THE DIAMOND DIGGER.



THE DIAMOND CUTTER.



From The Scientific i Imerican may

#### THE MAKING OF DIAMONDS. By VAUGHAN CORNISH, M.Sc., F.C.S.

The reproduction of the diamond by M. Moissan has put the coping stone to the work of mineralogical synthesis. For some years past it has been thought that the solution of this problem was merely a matter of time and patience; but it is no little satisfaction to be able to say at last that the thing has been done, for it is indeed a striking illustration of the power over stubborn matter which is won by the patient student of science. In the light of what has now been accounplished, it may not be without interest to refer to what was written in this journal on the subject of the production of diamonds previously to the work of M. Moissan. In Knowledge for May, 1891, at the conclusion of an article on "The Artificial Production of Ru-

bics," the matter was referred to as follows:

"The great problem in the artificial production of gems is the preparation of the diamond. . . In the case of other minerals the successful production has generally only been achieved after a minute study of the mode of natural achieved after a minute study of the mode of natural occurrence, and this has afforded guidance as to the best means of imitating the natural process of formation. It is only of recent years that the diamond has been found in its original matrix, so that materials have been wanting on which to base experimental methods. The chemical nature of the body, a combustible substance, is so different from that of the ruby and most other gems, which are oxides or oxidized materials, that the methods to be employed for its production will probably involve the employed for its production will probably involve the application of different principles. There is no reason, however, to regard the problem as insoluble. When sufficient guiding data have been obtained, skill will not be wanting to imitate in the laboratory the conditions under which nature has worked in the formation of this most beautiful product of the mineral world."

What some of these determining conditions might be was indicated in a subsequent paper on "The Diamond Mines of South Africa," which appeared in Knowledge for October, 1891. "To the mineralogist the chief in terest of the South African mines lies in the fact that the 'blue rock' or kimberlite appears to be the original matrix of the diamond. . . . It is worthy of note that a black shale forms one of the surrounding inal matrix of the diamond. . . . It is worthy of note that a black shale forms one of the surrounding rocks and pieces of this shale have been found baked and otherwise altered in the blue rock. The suggestion has been thrown out that the diamonds were formed by the alteration of the carbonaceous matter of the shale under the influence of a moderately high temperature and great pressure. Such indications are useful as affording suggestions to the experimentalist, to whom, in spite of previous failures, we must look to tell us definitely how the diamond is formed."

If the diamond be highly heated in the presence of oxygen it takes fire, as is well known, and burns with the formation of carbonic acid. If it be heated not in

the formation of carbonic acid. If it be heated not in contact with oxygen it swells up and blackens, reverting to the ordinary charred form of carbon. But the action of heat upon bodies is in many cases very different when they are subjected to high pressure, a prin-ciple established by Sir James Hall more than one hundred years ago in his celebrated research on the conversion of chalk into marble, one of the achievements of experimental geology, described in Knowledge for July, 1891.

As will be seen, M. Moissan invoked the aid of pressure to modify the action of heat in his experiments and produced diamonds from charcoal, a substance of the same nature as the "shale" which occurs in the Kimberley rock. The formation of crystals is, as a rule; best brought about either by sublimation or by cooling a solution. Carbon, however, cannot be distilled or sublimed, and is insoluble in all ordinary solvents, such as water or aqueous solutions of acids and alkalies, or in liquids such as alcohol, ether or benzene. On the other hand, molten metals can take up or disso've carbon to a not inconsiderable extent, as happens for instance, in the well-known process of iron smelting. The moiten iron in the blast furnace dis-solves some of the carbonaccons fuel, a part of which, when the iron is allowed to cool and solidify, crystal-

lizes out in plates of graphite.

This is an example of the production of a crystalline form of carbon from a non-crystalline variety, and it is, at the same time, an instance of the artificial forma-

tion of a mineral.

M. Moissan, in his experiments, employed iron as a solvent for carbon, which was in the form of charcoal; but he modified the action of heat and the solvent by subjecting the carbon-saturated iron to considerable pressure. It may be noted here that M. Moissan finds the principal constituent in the ash of the native diamond to be exide of iron. It is known also that native diamonds often contain liquefied gases in cavities of the crystal, and that they are sometimes liable to spontaneous disruption, owing to a state of strain which is probably due to their having been formed under high pressure.

In an earlier series of experiments, iron melted by

means of an electric furnace, and raised to a white heat, was allowed to saturate itself with carbon in the form of strongly compressed sugar charcoal. form of strongly compressed sugar charcoal. The crucible in which the operation was conducted was then
plunged into cold water, which cools the outer portion
of metal so as to form an outer layer of solid iron.
While this outer coating is still red-hot the crucible is
withdrawn from the water, and the cooling proceeds
more slowly. To realize what goes on within the jacket
of solid iron, we must remember that the still liquid
interior is maken from containing a large excess of disof solid fron, we must remember that the still liquid interior is molten fron, containing a large excess of dissolved carbon, and that iron expands in the process of solidifying. Hence, during the process of solidification within the jacket or crust of chilled metal, great pressure is exerted. The process of solidification, therefore, goes on slowly and under great pressure, and exemplants of the resulting product showed that unexamination of the resulting product showed that, under these changed conditions, a part only of the sur-plus carbon had crystallized out as graphite, and that in the residue left after dissolving away all the iron by means of boiling hydrochloric acid and other solvents there was a certain quantity of a denser form of carbon (having a specific gravity of 8 to 3.5), and hard enough to scratch a ruby; and that among these heavier portions of the residue were transparent particles, having a greasy or waxy luster and marked with

parallel strin and triangular depressions. These transparent particles burned when heated to 1,650° C, in oxygen gas and, as it appeared, with the formation of carbonic acid; but the particles were too small to allow of a quantitative experiment. Similar results were obtained by the slightly modified method of rapidly cooling an ingot of molten iron saturated with carbon from a temperature of 2,000° C. In a few cases small fragments were obtained, "qu'ils ressemblent aux petites fragments de diamant transparents que nous avons rencontres dans la 'terre bleu' du Cap'. que nous avons rencontres dans la 'terre bleu' du Cap' (Comples Rendus, February 6, 1894). The result may be summed up by saying that, up to the date of the experiments described in the above quoted paper, M. Moissan, appears to have successful in remarks. Moisean appears to have succeeded in reproducing that transparent variety of carbon of which native diamonds are composed. The specimens could hardly be called diamonds, although they showed certain char-acters of the native diamond—s, g., a waxy luster, and parallel striss and triangular depressions on the surface.

Since the experiments above described, a happy

Since the experiments above described, a happy modification of the method employed has given results of a far superior kind, perfect diamonds being formed, having the distinctive physical peculiarities of the native stone and of sufficient size for M. Moissan to prove by quantitative chemical experiments upon some of the speciments that they burned with the formation of pure carbonic acid. In the course of experiments made in former years by other experimenters using other methods, transparent crystalline bodies were obtained which were thought to be diamonds, until their failure to satisfy the carbonic acid test showed that failure to satisfy the carbonic acid test showed that
the crystalline particles were not composed of carbon.
Moissan's modified method is as follows: Iron is satunated with carbon at the white heat of an electric
farnace and under pressure. The crucible containing
the molten iron is then quickly lowered to the bottom
of a both of mellet lead

of a bath of melted lead.

This insures quicker cooling than when the iron is plunged in water, owing to the fact, first, that the water had been not really come into contact with the water; and secondly, that the lead is a good conductor and carries away the heat rapidly. It seems that the two liquid metals behave toward one another worth and lead water and the western ison collecte. much as oil and water, and the molten iron collects in spherical globules which rise to the surface of the molten lead, the difference in the specific gravity of molten iron and of molten lead being, of course, very considerable. The surface of the drops of liquid iron which float upon the surface of the lead quickly solidifles, the smaller drops with a diameter of one to two centimeters first, the larger drops after a lapse of a longer time, and the solid little balls of iron are left to float on the molten lead, where they cool down. The

interior of the bails is of course liquid long after the formation of the solid crust.

Continued. The tendency of the central parts to solidify is resisted by the solid crust, owing to the fact before men-tioned, that from expands in the act of solidification. Meanwhile a part of the carbon crystallizes out from its solution in the liquid iron. After a time, as the cooling goes on, the lead also solidifies, and the little iron balls are left embedded in the ingot of lead. Then begins the process of getting at the small quantity of the carbonaceous material which it is desired to examine. The lead which adheres to the iron is dissolved away with nitric acid; the iron itself is dissolved by hydrochloric acid, and further treatment with suitable

tity of material left after the tedious process of removing by slow chemical means the relatively large mass

solvents leaves the sought for residue, a small quan-

of metal.

Transparent diamonds are found in the residue having well-defined crystalline faces, striated and marked in the well-known way, and the edges generally curved; they have the high refracting power, the specific gravity and the hardness of the native stone. The peculiar form known as the hemiledral predominates among these crystals as in those of native diamonds, and their formation under pressure is found to give rise to the phenomena of anomalous polarization of the light which passes through them, as well as occa-sionally to spontaneous disruption; characters which, as has been mentioned, are sometimes noticed in the native stone. The diamonds are of course small; one with a diameter of half a millimeter appears to be reckoned a fine specimen,

Further practice in working the process will probably enable larger specimens to be obtained, as has been the case with the production of rubics, which are now produced of a size sufficient to be used in the jew-

eling of watches.

However this may be, the production of diamond is now an acknowledged fact, achieved by the patient skill of the same worker who, seven years ago, successfully overcame the great experimental difficulties which had rendered fruitless the many former attempts to isolate the chemical element fluorine.—Knowledge.



THE PATY DEARDED, EXECUTED TO THE SAN CHEOTIES UNDER A MILITARY GUARD DUKING THE REIGN OF TERROR.

### DIAMOND RUINED BY SHOCK.

Gem Valued at \$1400 "Feathered" by Dropping on a Marble Place.

NEW YORK, Jan. 18-A diamond weigh-

NEW YORK, Jam. 18.—A diamond weighting 65-8 curats and valued at \$120 was y destroyed yeaterday afternoon at the I before year year and the I before year. The seen was the property of J. J. Roche, a diamond dealer.

Mr. Roche was exhibiting the diamond in Captain Peacock, the cirk of the hotel, and several other friends. Through some mishap the diamond allipped out of a shoot of soft white paper and fell on the marble descript. It struck on the gradie, and the shook sent 'feathers' through it, thus rendering it misalable.

While diamonds are known to be the best typed through shock. Mr. Roche are through a diamond should it fall and strike on its outside centre circular glade.

strike on its outside centre circular gladle According to bim, a diamond may fell so times out of 100 without hitting its

"I am not superstitious," he remarked.
"In am not superstitious," he remarked.
"but a few days ago I began wearing for the first time an oral pin. My theatgirs! political and sporting friends
warned me against wearing the opan.
Well, all I can say is that I am out \$1900.

The property on says me part of the unless a tapidary can save me part of the big stone."

Baston

#### A SOUTH AFRICAN CRIME.

"You black meetl, I gave you out enough wood to last you two more days! You're been selling it for small. If I that you at such games, the enly

"You Bo, born" replied the guant Kath, in a deep, guitural value. "You list" he repeated, offence, but simply most the one Raglish form of denial that he hower.

This Kafe was employed as a digger in one of the South African clament enters, where all the native laborers are called "boys," Bestder their Bestder their wages, they receive would for routing purposes. New wood is very ourse and costly there, hence the "leases," who are nearly "Britishers," are spi to suspect the topy of making a may franchizently with the expansive few wood.

The man who accused this purficular Kadr size the managing partner of a firm of four English nen, who expressed the markets to be "gentlemen." and were commonly regarded as such by their origidors at the directors. They had some out some months exister to neck their fectures in General mining, but the sequel powed them stilling to gain money by almost any means, hunsel or atractions, as the case might be.

Ty to this time they had entered that per nicless run of he's which is almost worse than an fact at all. They last put nearly all their capital in one "hole," from which their boys existen became these a diament fill the owners were exthe point of giving up in draude. Encouraged by s field at last, the Englishmen would put in more money, sails to experience marker long entereds of profession days, Salliewed at the last manufact by a find that induced there in restart for a month

So "the lock" had pose sill scurly their whole empirial had melted aye , and they had come to wreak of "the hade" as the respectives." Probably their Kafey had been secretary and stealing the dymonds as fast as they found them, shrewilly giving the bosons and enough to know there invest-

As the mininger continued to accuse and threaten this particular Kafir visionity, and as the Kafir continued to answer smilingly, "You lie, but, you he!" the three other partners of this firm of ogen-

"Get lisck to your work!" mared the reanight partner. As the boy can away the manager sald, petidinaly:

"I say, you tollows! I wish we badn't stranged in go on with this beggarly sepatchive for another mouth. Here's balf the time gone, and the same old game. All the eggs in one tooket and no luck. I wish we had put our last pile in the wood cutting lessiness, as the doctor suggested.

"Not too late yet," said the doctor, who was one of the quartone.

"No, why should it be? Wood cutting uppears to pay these five fellows uncommonly well bet they're making slaty pounds a week. I wish some new churie would come along and buy us out, and let us have a turn at the wood trade."

Within a range of forty ralles not a stick of wood was to be found nothing but the hard and sevented echli, or plain. Hence fuel had to be transported from a far with great labor, and it was in this tranportation that the manager and the doctor wished in engage. With them the two others did not

"Oh, bether the wond?" sald Marwyn. "tiet the stuff and make it go as far as possible-that's all I want to do to the wood spale.

There's more in the wood trade than appears and the durair. "We might to look hate it. I'd The matry H. any way."

What do you mean by there being more in it then appears?" said Merwyn

Well, I've thought about that Wast Supplying Learnington for a long time. I've perer been able to make out clearly what they really do for their noney. My list of is that wood cutting is not their only occupation."

-Gameen! Why?"

"Where do they get their discounts?" said the doctor, laying his Sugar to the side of his most and leaking professors.

"The you suppose they have found directors that

"[derline. The same reallie enjoyates. Bet dismonds (her certainly not annewhere here the first man I not after I must here. I suppose their best one for a global, there has no passes of their Mail. One of commended the company of with specimen

"Buy them for speculation," said Morwyn.

"No, they do not buy. Dre impaired. They never buy a stone on this Kopie. So I my again, Where do they get the diamonda! Wall, if things don't change for the better with as soon, I'll renow my acquaintance with those wood dealers, and give them the chance to choose between apposition or in king as into partnership."

With this the conference unfed, and the purmure strolled away to their respective pools for untering their Kathes. As overflooders their duties were prindually three: First, to keep the beys at work; second, to prevent the tors sceretting "dade" instead of bringing them to the managing partner, third, to sort the dremonts brought in.

The wood firm whose drings were thes discussed had been the object of much speculation before this. But all attempts to because familiar with that elice society had failed. The camp resultated to wonder that the men, critically besides fown "enells," checks prefer the stoney wood trade to Opping to the Orgers' looky long, with the chance of a fad that wealth set them up again in those former style of life.

Many men of the camp and relegators of the work for the free, and others had suggested that they would like a try with the wood contractors "past for a change, you know." But not one of them got elither engagement or invitation

The wool-dealing firm had been at less to ord; tary heating party, who socked in at the camp to the course of their semiorings. About four months later they semi-proced with wagons, and set in at care to easy set plans which were subjectly outside surposed.

Day to and day see, after their florestess about the wood first, the love dispute worked at their corresponds to claim, steadily getting reason to brokermany, and sturffly postpooling to announcement to hopes of a change of both Indeed the claim was a very mercaling one. Every month it yielded some triffing diamond, just comings to been them from abandoning the exercised speculation, but never enough to yield a sum that would enable them to any quits and supply themselves for some other venture

When the rounts ended the usual misorable find turned up and found his biny to the Diamond Kooper down the street, just in time to provide the means of struggling on. It was particularly sainful to the manager to have us pass a fair proportion of the finds' value over to that strictly bushess like wood firm, whose representative insisted on each in advance of delivery.

During the previous week the diggers had not brought much wood, because their born had absconded in such numbers that few were left to supply with neel

Why were the boys musting away more frequeuily then usual? The decise especially pendevest this problem, but he was too inexpertenced to lift upon the true reason less yet. The head last's story that the absoraders were benedick that and appear to be good enough. Certainly the Kalles were letter fed and warmed at the mesthan they were likely to be at home. It did not occur in the dector that they might make home our nembership with the protects of sales

One the day alket this time a visiting wagnetrain from beyond the Transvall brought to enfortenate antire tells camp. He had been picked to about four days of, starting and saffering five a belief would be the shoulder. Of this wound be weath give no nerve

When he found out in which direction the puris was journeying by hid fought hard to get away tall deliness though he was. When excatable safety landed in the hospital but, the pine wretch sought the dirtiest mente, and effect himself in much as possible, as though fracted of some opening parl-house.

In the rouse of the day the only shotter on the field-by of the demond from-board of the sounded Kafr, and strolled down to the housest hat, which was also the prison, in front of which many a boy had been degred for not giving up finds to their mosters. Having opened the leavely published door, the dictor parted round for his

No somer did the Kalir carch sight of the vigue than he started up with a band of fright, and made a determined rush for the door, where he want ness becouplet him down inscrible.

In a moment the doctor, in his strictest profesdonal rapacity, was by the Kahr's side. Before the wounded man had recovered his constitueness the buffer had been say out from close under the akin of his back. This put the poor around in comparative comfort as he lay on the heap of sacks which did duty for a bed. There the doctor loft him, and after carefully rejecting the door went in his way he search of some medicines which he found would be required.

Arrived at his tent the doctor put the Judiet on the old packing case that served as a common table. Then he gathered up what he wanted, and set out



the Kufir did not attempt to escape, a terrified aspect showed that he expected tal retribution.

er" thought the dector. "Perhaps be ne usual Boer treatment, and thinks that meanmonly slow in putting him to the no-perhaps it is the place that frightens be ever worked on these claims be must m diamond-stealers flogged outside that now I understand P

mar peered into the Kafir's terrified face. way boys I'm a Dutchman. I suppose he me to have him flogged for descrion."

doctor did not resent the man's flight, he at all his skill to the wound. Soon the de up his mind that he was not suspected libery which had really been the motive sertion. He had taken diamonds from the d sold them. His late employers were too I without a diamond sanggled away in as knot of his watst cloth.

- law for lade the possession of diamonds black man, and excelly punished every

ed infraction of this rule.

the Kaffe was affected to remorse by the a which the doctor seemed to bestow, he was afraid of being searched, and ander to yield his booty voluntarily. At he tare to pieces a hard knot in his skin -The fall a noble diamond that flashed a ares right across the dark clay floor of the

ment the doctor grasped the situation. test up the sparking beauty so strangely that is owners. Then, feeling rather more shake the third's fund than give him agers, he put him back kindly on the at harried off to share the good news with

and them in solemn conclave, minutely ar same object that they passed from one

Got a stone worth looking at at last?" dictor, jumping at conclusions. "Then Let me see yours!"

a surhange for the gem he gave them, he

bullet he had left on the table. or the bullet.

eer to find it here," sald Merwyn.

the story, sold the doctor, and the story, sold the story, sold Mercyn. "The rifle that bullet is an old friend of mine. I'd swear countition anywhere. Bad times made at shooting gear, and the man who bought most carries that sort of tall is Thompson soud firm. Bless him for the locky shot aght back that sparkler."

the case, the shot may furn out more make, "that is, if you chaps are not too

tor anything," said Merwyn.

by me have the stone, the bullet and three are and when I return I think I shall have a that will put us all in a fair way of a the home-vialting lists again."

and you mean?"

mind. Let me alone. Work the stone as and trust to me for a proper investment "

seer, and the next morning the doctor was

me later any one who pleased might jump per planed the wood-entire, and to all deserted diamond digging for steady

awairs rolled on for upward of a year rame and Kafirs abscorded spasmodl-

a day sume when the auctioneer had a no less than the entire plant of the and dem. This was knocked down at to some speculative strangers pointly of the retiring firm; and the new lot set the business if possible.

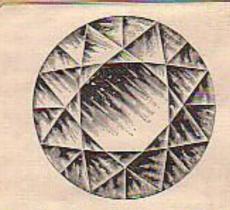
and so with a vengeance, for in less than some the entire staff were in jall with a of being lynched by claim-holders

In plain words the firm's real "business" had been discovered. It consisted of waylaying absconding Kafirs, and relieving them of the diamonds they had stolen, in the certainty that they would not dare to complain. How many "boys" the knaves had found it necessary to murder was not to be ascertained.

The trial one a singular one. No charge against the prisoners could be sustained in law. They had certainly robbed black thieves of stolen diamonds. but the geons had never been seen by their true owners. Hence none of these could swear to their property. No Rafir could be found to appear against the "wood company." Therefore the rascally "gentlemen" laughed defaulty at those who arrested them.

But though they escaped from court, they did not so easily get away from the vigilance committee

organized by the camp. A handsome coat of tar and feathers was given to each rogue, and all were finally fairly bloked out of the company of honest men. But the original set had long eccuped to England, where they thought they would go sent free. Fortunately the story was well circulated there, and every man concerned altimately suffered exposure and disgrare. W. B. CHEBCHWARD.



## Looks Good, Doesn't It?

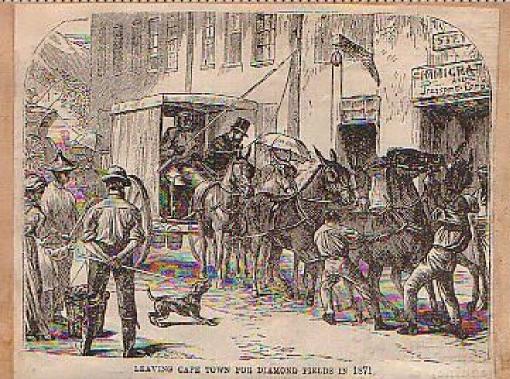


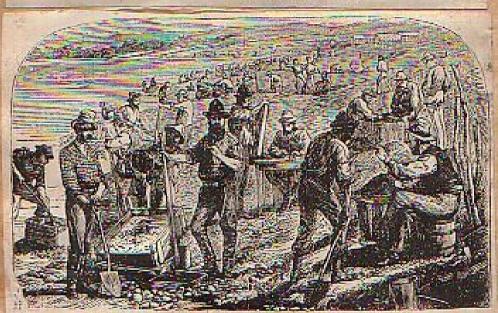
#### Sale of the Stanford Diamonds.

HE jewels which Mrs. Leland Stanford, of San Francisco, will dispose of in Paris, have always figured prominently among the possessions of the late California millionaire. There are few choicer collections of gems, even among the royal families of the Old World, and their value has been variously estimated at from \$1,000,000 to \$2,000,000. Mr. Stanford bought four sets of diamonds for his wife when the valuables of Queen Isabella of Spain were sold in Paris, and paid upward of \$600,000 for the four. One set is of the stones known as "blue diamonds," as they emit violet rays by day; another has pink rays in its stones; the third set is of yellow diamonds, as yellow as topaz, and the fourth is of flawless white stones. Each set has a tiarn or a necklace, pendant, brooch, earrings, from four to six bracelets, and some finger rings. all of the same style of make, and of corresponding stones. In addition to these, Mrs. Stanford has some genuine black diamonds, cut pearlshaped, and numerous other diamond ornaments in a variety of

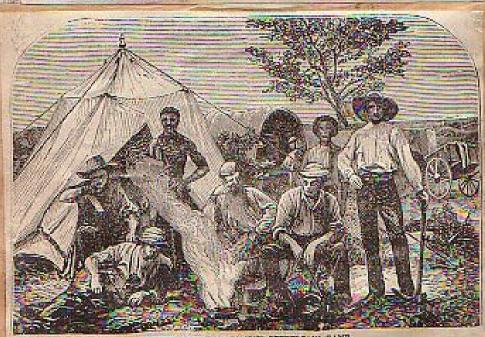
One necklace, not belonging to any of the sets above named, is valued at \$100,000, and its pendants at \$30,000. This was manufactured to order by Tiffany & Co. and consists of large colored diamonds intermixed with small white diamonds, rubies, sapphires and emeralds, all of the purest water. A hand of large yellow diamonds encircles the throat, each set in smaller white stones. Below this band is placed a floriated design in small white diamonds and colored stones extending in deep points. Between each of these points is suspended an immense yellow diamond set in white diamonds and attached to the upper part of the necklace by a ruby, emerald or sapphire. There are five of these pendants, the central one being the largest and having once figured in the collection of the Duke of Brunswick. This jewel is accompanied by a comb, a brouch, and a pair of earrings to match, and the necklace itself takes to pieces, and can be converted into pins, hair ornaments, etc., while the upper row of diamonds can be worn as a necklace, without the pendants and the pointed floriated band.

Mrs. Stanford has also over 60 diamond finger rings, which she keeps on a string of black tape. To accommodate all these jewels she has a case of steel, with cast iron handles and burglar-proof locks. The case has a separate drawer for each set of diamonds, and is, of course, nearly all the time deposited in bank.





DESCRIBE AND WARRING IN SOUTH APRICAN DEARBND PINCOS IN 1870.



SOUTH APERCA. -- DIAMOND-SEEKERS IN CAMP.

ofendline Metily

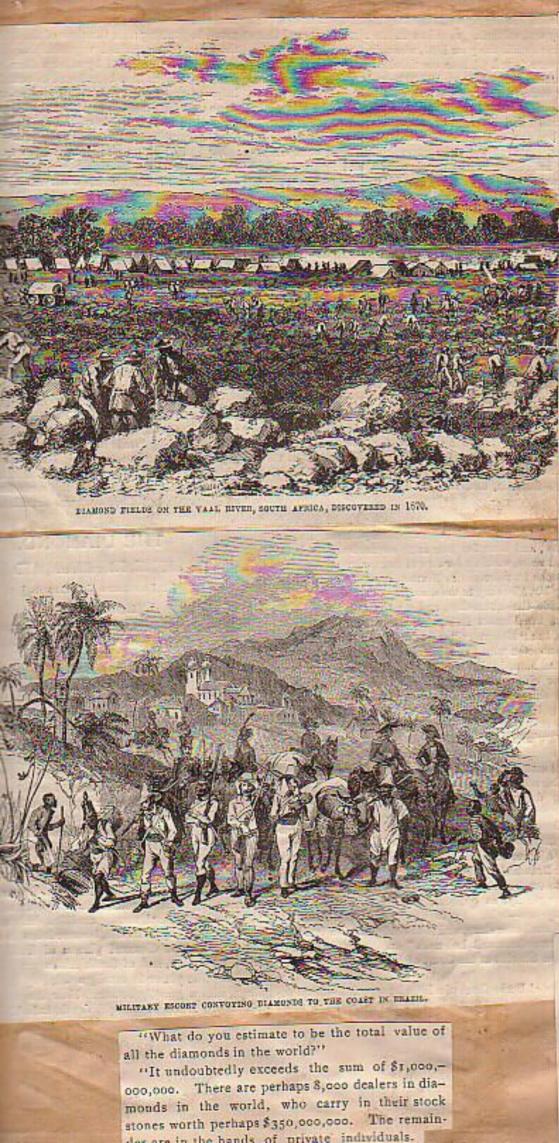
Most Extensive Diamond Mines.

The most extensive diamond mines in the are those of Kimberley, South Africa. around these immense mines are over an of tramways and 75 miles of elevated or railways. There are daily employed in the 2,500 horses, mules and oxen, besides 35 engines, with capacity equal to 9,000 horse. The expenditure for labor, fuel, etc., \$10,000,000 during 1894. The gross capathe various companies which now work the ent "diggin's" is \$90,000,000. Over natives, besides 2,500 European overseen bosses, are now in the employ of the Company of th

"During the last twenty-five years the can people have paid duty on at least \$1 000 worth of diamonds and other precious In 1893 alone they imported \$15,203,563 but in 1894 there was a falling off owing to times, and the total was only \$4,856,985 does not include uncut diamonds, of which ported more than a million dollars' worth \$800,000 worth in 1893, and \$566,267 in During the last twenty-two years we have ported \$7,087,817 worth of uncut diamonds 1880 we imported only \$129,000 worth of diamonds, and in 1889 only \$250,000 worth large increase of late has been due to the face a number of American jewelers have opened mond cutting establishments. The pioneer mond cutter in the United States was Mr. = D. Morse, of Boston, Mass., who in the learned the engraver's art, and later because jeweler. In 1869 the Dewey diamond, wen 25 carats, which was found near Richmond was delivered to him for treatment, and he duced from the rough stone a gem weigh carats, which permanently established his m tion as a cutter and polisher. There are teen establishments in the United States

employ from one to twenty men. The 4,000 manufacturers in Europe and about the United States, who employ between and 8,000 persons as cutters and polishers haps 28,000 people are employed in the dimines throughout the world. We read past centuries 60,000 people were working in single Indian mines at one time, and perhaps statement is not exaggerated, since by the modern machinery one miner can now account as much as twenty who used the primitive modes."

the De Beers Diamond Mining Company, that diamonds worth £3,239,389 were mined sold during the past year by that company, expenditures amounted to £1,695,293 and profits to £1,544,096.



#### Descent Into a Diamond Mine.

N African diamond mine is about as dark, dirty, and repulsive looking a place as an ordinary coal mine, and not by any means such "a ball of dazzling light as is pictured in the popular imagination. At the mouth of the shaft, which is inclined and not perpendicular, there is the "cage," which, to the stranger, looks as much like a wooden coffin as anything in the world. Into this box you get as best you can, and you are then launched into darkness with an awful and perplexing speed. After you have been dropped some 700 feet you are brought to a full stop, possibly somewhat to your satisfaction. The sensation of the descent as you lie in the coffin is not at all exhilarating.

Arrived at the bottom, or perhaps only at the first level, the visitor will probably be bewildered and confounded with the noise, the smoke, the unwholesome vapor, the lurid gleams of hundreds of candles, and the uncouth and unnatural appearance of the naked native laborers, who flit about like so many gnomes. He will see dirty trucks, into which dirty, dusky, perspiring, greasy niggers shovel dirty earth, which is hauled to the surface as is ceal from a mine.

It is unlikely that the visitor will see anything to even remind him of precious gems; of diamonds not one could be discover if he tried. The precious gems are encased in the lumps of dirty earth he sees sent to the surface to be exposed to the light of day after being embedded for ages in these caverns of darkness. The spectacle is somewhat disappointing, and removes many of the remantic illusions regarding the appearance of a diamond mine.

The brilliant gems that adors the fairest of the human race are won from the dirt and darkness and amid dangers to life and limb which would dismay a timorous mortal. As is now so well understood, the dirt which is locally known as "blue ground," from its peculiar dark blue color, is brought from the mine to the surface, and is it the real search for the diamond takes place. This ground is pulverised by the action of the atmosphere, and by machinery, washed and sorted so carefully that it is a great wonder if even the tiniest little gem escapes notice.

## -/93/- Frederick A. Horn

Frederick Anthony Horn, president and treasurer of E. B. Horn, Boston jewelers for ninety-two years, died in November after an illness of five weeks. Mr. Horn was a grandson of the founder, who started the business at Hanover street, next to the American House. He was fifty-eight years of age and is survived by his wife and a brother, Edward B. Horn, a Boston attorney.

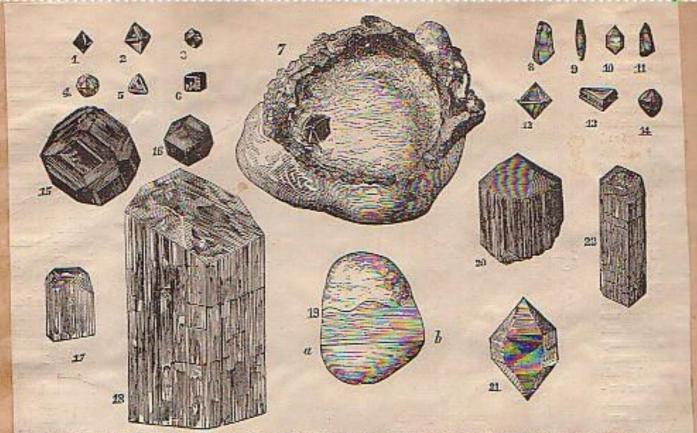
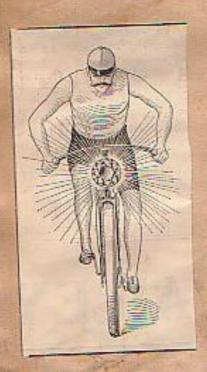


Fig. 1. Octobedron Biamond. Fig. 2. Octobedron having six planes on the edges. Fig. 3. Dodecahedron with rhombic force. Figs. 4, 5, and 6 are rarer forms. Fig. 7. A conglomerated mass of Quartz Poblics, two crystals of Diamond, and various grains of Gold; the whole comented together by oxide of iron. Figs. 8 to 11. Crystals of Corundom. Figs. 12 to 14. Crystals of Spacel-ruby. Figs. 15 to 16. Crystals of Carnet. Figs. 17, 18 and 19. Rhembic prisms of Topaz. Fig. 20. Tournaline. Fig. 21. Crystal of Transparent Quartz, or "Rock Crystal." Fig. 22. Beryl





AFRICA'S FINEST DIAMORD.

A SH-karat diamond, the finest ever found in Africa, was discovered at Jagersfontein in the Transveal, on the day after Christmas. When cut it is expected that it will be worth \$1,00,00.

Jan 19+ 1876.



GEMS, REAL AND FALSE.

"It doesn't require an expert to tell whether a glamond is genulou or not?" said a jeweller to a St. Louis Globe writer. "The test is very simple, and can be made in any place and in a nilment. All you need is a piece of paper and a lead pench. With the latter make a small dot on the paper, then look at it through the clamend. If you can see but one dot you can depend upon it that the stone is genuine, but if the mark is sentired, or shows more than one, you will be derfectly sate in refusing to pay 10 cents for a stone that may be direct you at \$500. A blue stone may be trated by a barn in alcohol. Many yellow stones are made blue by an apportation of analine, and this is overcome by the alcohol.

#### A DELIGHTFUL TRINKET.

The Blue Hope Diamond Origin the Famous Tavernier.

It beneforward became known as the libenseforward became known as the libenseforward became known as the libenseforward became known as the libensefor the Hope Bine enjoyed for removable to the Hope Bine enjoyed for removable to the state of the Hope Bine enjoyed for removable to the state of the libenseform and white diamonds to the state of the police of libenseform as thought about his arms, and had a beautiful pearling may thought about his mediang was thought about his the death of the Duke of libenseform as the most diamond miser, used to sieve surrenunded with mempeateds which were warranted to go which the mad diamond miser, used to sieve surrenunded with mempeateds which were warranted to go which the libenseform a blue store of states weight. Mr. Sinceter, than there exists no better authority on diamond the store and the Hope Bine put into hands together. He found that they decleted in order and quality; that the of cleavage matched as meaning as the inner weight of the French Bine. He immediately weight of the French Bine, the immediates the stores were once united and the libes blacked who were the very natural conclusion that these stores were once united and the libes blacked who were natural conclusion that the store and they are all of a pale blue most odmit that the weight of evidence is the strongly in favor of Mr. Streeter's the strongly in favor of Mr. Streeter's

Outling, Polishing, Engraving and granding afraratus Shown by George F. Koung before The Lowell Amelitate in Huntingen Hall Boston, in a lecture delivered Thursday Field Diamond Hackine in Center,

weller Westles 1893 Something About Diamonds.

There are perhaps 8,000 dealers in diamonds in the world, who carry in their stock stones worth perhaps \$350,000,000. The remainder are in the hands of private individuals.

There is always something fascinating about the subject of diamonds and rich and poor like to read about precious stones. It is estimated that during the last twenty five years the American people have paid duty on at least \$180,000,000 worth of diamonds and other precious stones. In 1893 alone they imported \$15,203,563 worth, but in 1894 there was a falling off, owing to hard times, and the total was only \$4,856,985.

This does not include uncut diamonds of which we imported more than 1,000,000 worth in 1892, \$\$00,000 worth in 1893 and \$566,267 worth in 1894. During the last twenty-two years we have imported \$7,587,817 worth of uncut diamonds. In 1880 we imported only \$129,000 worth of uncut diamond; and in 1889 only \$250,000 worth. The large increase of late has been due to the fact that a number of American jewelers have opened diamond cutting establishments. There are now fifteen establishments in the United States which employ from one to twenty men.

There are 4,000 manufacturers in Europe and about 200 in the United States, who employ between 7,000 and 8,000 persons as cutters and polishers. Perhaps 28,000 people are employed in the diamond mines, throughout the world. We read that in past centuries 60,000 people were working in some single Indian mines at one time, and perhaps that statement is not exaggerated, since by the aid of modern machinery one miner can now accomplish as much as twenty who used the primitive methods. The total value of all the diamonds in the world undoubtedly exceeds \$1,-000,000,000.

During the last quarter century ten tons of diamonds, selling for more than \$300,000,000 uncut and \$600,000,000 after cutting, have been added to the world's wealth-an amount more than twice as great as the value of diamonds known to exist before. This vast value is in the most concentrated portable and ornamental form, and more convertable than anything except gold and silver. It's accumulation has built up cities like Kimberley, maintained important industries in Amsterdam and and other centers.

### *auentinuu* Exact as Fingerprint Method in Criminology

By ANN LOW

M. Mallaval, a distinguished French seigntist, states, according to a repent Associated Press dispatch that every diamond has a separate and distinct individuality. He has perfected a device whereby he is able to throw an enlarged picture of a diamond upon a screen and show its individual characteristics. The violet ray brings out the different colorings and their ar-rangements in each stone. Experts say that his method will prove important in the identification of the dismonds in the trade, and also in police work in the recognition of stolen stones.

the recognition of stolen stones.

The dispatch says "when famous stones, such as the "Rose Diamond" stolen from the Chantilly Chateau, come into question, some experis can be found to identify or describe it, because there are few or none like it, but there has heretofore been no system of positive identification."

#### FAMOUS GREAT ROSE DIAMOND STOLEN

This great Rose diamond, called the Grande Conde, a lovely heart shaped stone, an inch in height and 3-4 of an inch in length, was stolen last fall from the chateau of the Dut D'Aumale, called the Chantilly Chateau, which has been made a partneral water of the control of the characteristics. called the Chantilly Chateau, which has been made a national museum of gena, whence they took in some On Dec. 21, following, a little chamber-maid bit into an apple, which had rolled from a suitesse in a room which she had been cleaning. Her teeth came together on a hard substance. She thought she had bit on a piece of giass, but it did look ahiny so that she gave it to the proprietor of the hotel. He called the police. Secret service men surrounded the building and captured two of the thieves.

The desire to increase one's personal

two of the thieves.

The desire to increase one's personal charm by adornment is older than history. Probably way back in the world's dawning we began this custom by docating ourselves out in shells, stones, dried berries and feathers. Savage peoples in distant lands do so in this age and date. And curious and bideous to our eyes are many of the ornaments they wear suspended from the cartilage of the ears, noses and upper lips.

We wonder how the diamond came to be the stone usually selected for the engagement ring, and we are told that the custom may have originated somewhat in error. The word meaning to love" in Latin is "amare." The diamond derived its name from a Greek word "adamas," which means "hard." And the diamond is the hardest substance known. The words "amare" and "adamas," as you may easily see, healance known. The words "amare" and "adamas," as you may easily see, became confused and the diamond became the votive offering upon the shripe of Venus.

#### LEADS ALL GEMS

In speaking of a jewel, beloved of feminine hearts, we ordinarily mean a precious stone cut, finished and ready for wearing; and, like Abou-ben-Adham of old, the diamond leads all the rest. Usually coloriess, it is sometimes tinted by mineral oxids. South Affican diamonds are said to shine with a binish light. Diamonds from other localities emit bright blue, apricot, red, orange or yellowish green. Small sized diamonds may be found in meteorites.

Diamonds are a natural form of carbon, as is the lead in the pencil with which you write, and the bisck diamonds, or coal, which you burn in your furnace.

A big red diamond of 18 carats has

A big red diamond of 18 carats has been found of late in the Lichtenburg diamond district. Recently a diamond merchant in London has had on exhibition in his shop window a blue diamond the shop window as the shop window

been cut into nine ciones, presented in 1908 to King Ellis to he placed among the Erra jewels.

The largest of these shaped brilliant, weighing is mounted in a removable science of the second largest stone Co meighs 309 3-16 carnis and a in the crown of England. The Koh-1-nor is possible

famous diamond in the weighed about 1861-16 carried in the weighed about 1861-16 carried ter it was recut. It is the privately of the English royal famous means means in the carried terms of the carried restrictions. in its long and notorious his securized an evil reputation in be counted upon to bring balt der and sudden death to its o In 1804 the Sultan Ala-ed-dia ed it from the Rajah of whose family it had been a whose family it had been not to say an heirloom, for The Sultan thereby started and innocent stone on its path. In 1849 the East India presented it to Queen Victor seems to have reformed the sto-ing in this case that enviro-stronger than blood—or sparsis



SPARKLING DIAMONDS.

1873

Gems in Orange Free State Are Transported Under Military Escort.

When a diamond is found weighing more than 100 karats, the news is usually heralded with much ado. It is not to be wondered at, there fore, if the finding of the "Excelsior" created considerable excitement. It weighed in the rough-071 carats and was found near Jagers Fountain, in the Orange Free State. When examined, it was found to be a white stone of the first water, but had a small fixw in the center. The inspector of the mine, a Swede named Jorgenson, was the lucky finder. The proprietors of the mine, Breitmayer & Bernheimer, had the stone tested and valued by experts, who agreed that the value was \$5,000,000. It is a fact that two offers of \$3,000,000 and \$4,250,000 respectively have been refused by the proprietors. Upon its transfer to the coast great precautions were taken for its protection. A squadron of cavalry escorted it to the railway station. In Cape Town it was placed

aboard the British gunboat H. M. S. Antelope, which brought the precious gem to London, where it now rests in the fire and burglar proof vaults of the Bank of England.

The next largest diamond in the world is the one owned by the Rajah of Matan, on the Island of Borneo; this one weight 367 carats. The handsomest of all the large diamonds known is, however, the one in the French collection of crown jewels, known as the "Regent," which weight 136% carats. Louis XV. paid 3,000,000 france for it, but now it is valued at 10,000,000 france, or \$2,000,000.

How much the "Excelsior" will lose in cutting can only be decided by most eminent experts. As a rule the larger diamonds lose fully one-half of their weight in this operation. Naturally the cutting, which is done with a view of having as tew large pieces as possible outside the large gem, must be carried on with the greatest care. This business is carried on mainly in Amsterdam and Antwerp. In Amsterdam there are at present five large concerns of diamond cutters, with 872 diamond mills, or cutting wheels, and 3,000 hands, besides a large number of less important concerns.

## DAILY GLOBE-WEDNESDAY, DECEMBER

## OLDEST DIAMOND SPLITTER.

260,26 -18

There is Only One Man in This Country Besides Josiah J. Van Buren Who Knows How to Gut a Diamond in Pieces.



## Van Baren,

Thirty years ago in the whole United ; States there was but one man who could split, out and polith a diamond. That man is today the oldest diamond

splitter in Boston, and, for that matter, in this country. His name is Josiah J. Van Buren, better known as J. Van Pineen, and his residence-he has no regular workshop is 73 Waverly st,

He is a narive of Holland, and in Amsterdam he karned his trade, serving a three years' apprenticeship with one of the largest diamond manufacturers

His father, at that time, was in the wholesale dry goods business in Am-sterdam, and young Van Buren, having expressed his determination to try his fortune in the new world, was entrusted by his father with establishing a branch house as an importer of dry goods in

Before going to New York, however, he came to Boston, arriving here direct from Liverpool, March 25, 1839. A few months later he had opened a dey goods house on Maiden lane, New York, as importing agent for his father and for an uncle, also a wholesale dry goods dealer in Liverpool.

Meanwhile he formed the acquaintance of a fellow countryman who was engaged in the manufacture of glasscurting diamonds, but who had no knowledge whatever of the trade of a diamond splitter.

Van Buren showed him how he could make four and sometimes five cutters out of a stone from which he had been getting but one, and thereupon agreed for a salary of 500 a week to do the work, with the understanding, also, that he should be allowed to devote a certain

time to the dry goods business.
Henceforth Mr Van Buren's reputa-tion, not alone as a diamond spiliter, but a Glamond expert as well, was made, and, an effer coming to him from Dalness altogether, and devoted his whole time to his trade.

From Baltimore he came to Boston and worked for Henry D. Moese, din-

mond dealer, who sent he as purchasing agent. He for Herman Levy of New while there split a Heart mend, which was afterward

mend, which was allowed cardrops and said for the 'That," said Mr Van Bulargest diamond I ever spa beauty. The one imperit, which I divided up sting was in the heart, he pert could have detected in In 18th he mended in E

In 1965 he married in Bea years later removed to Fall he ongaged again in the er-bess, but the death of h two years afterward, tograhusiness, induced him to re-ton, where he has been dear His chief occupation for t

years has been that of a ar, rather than a wear bench, though he has a accounts himself today the diamond splitter, cutter as the United States.

Speaking of the growth mond industry in this co the last 1) years, he deck has kent pace with the country, but that many valuable diamonds own here were purchased in Eu-"There are as good in the continued. "In our Arms

as anywhere else, but it fad I suppose, with some theirs abroad. That per reason why we have so ver on this side, for of course thinks of splitting a pen The splitting is done shi the imperfections. "I am not sure that

more than one other dia in this country, but you quantity of cutters and p 'Up to 1870 we had simple ian mine diamonds, but Cape, or African, diamonthe markets today are they are equally as fine Mr Van Buren bears

markably well, and, these appear to be more than He is signify above the n very compact, weight some a heavy gray mustache. what build.

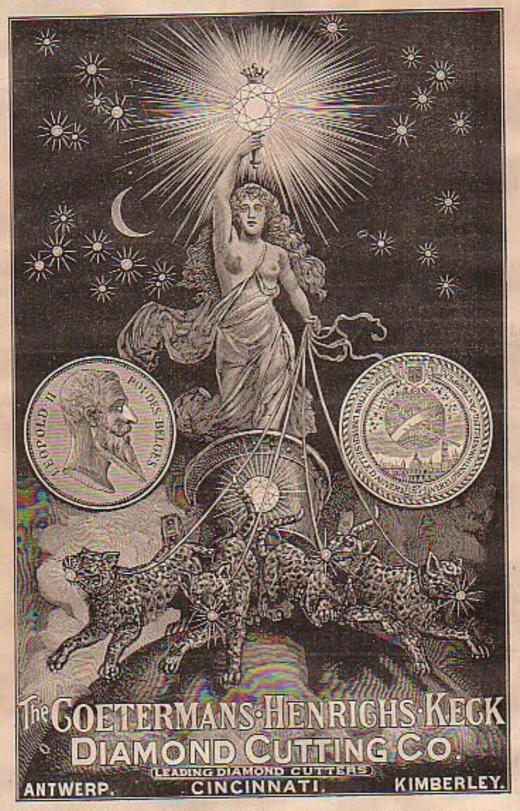
the has four children, I two girls, the latter, Mur-

nu, well known in musers

## GOLD MEDALS, PARIS, 1889,

For Superior Cutting in Competition with the World. Highest Awards for Cutting at the Expositions,

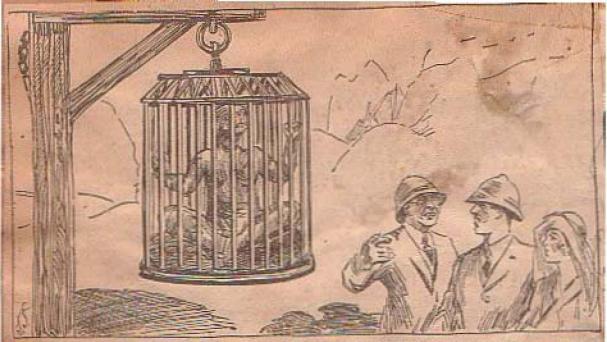
## 1885-ANTWERP-1894



We respectfully call to the attention of Diamond Buyers that we have unequalled facilities for obtaining Diamonds in the rough, direct from Kimberley, and that all our goods are cut by the recognized leading talent in the art of diamond cutting in the world. This enables us to offer the finest make of goods at lower prices than others of inferior finish. (We invite comparison.) We have large parcels of finished goods in all grades on which we offer special inducements.

SOLE SELLING AGENTS:

THE HERMAN KECK MFG. CO., CINCINNATI, OHIO-



"For instance, the owners of a cer-tain inthe have bought all the land for miles around it, and on this the native workers live. No stranger is allowed incide this ring of land, unless he first undergoes a strict search of his person and his belongings. The natives are al-iowed to ream around this piece of land and his belongings. The natives are allowed to roam around this piece of land as much as they please, but may not go outside of a tunder any circumstances. They wear no parments except a hand of cloth around the wall. A worker must change this cloth every day for a new one which is given to him by the storckeeps. Estate he enters the mine in the morning he must take a both, and another at night after miniping work.

The reson for this, said Mr. Moore, is that they may not alternate to hide any diamends on their process. They are constantly warned against mealing, which is the worst of all monthless offerness. But now and then

prince. Intry of commenced white against stealing, which is the worst of all pumble effences. But now and then some man is cought trying to assessed on two for himself, and then has hard back begins.

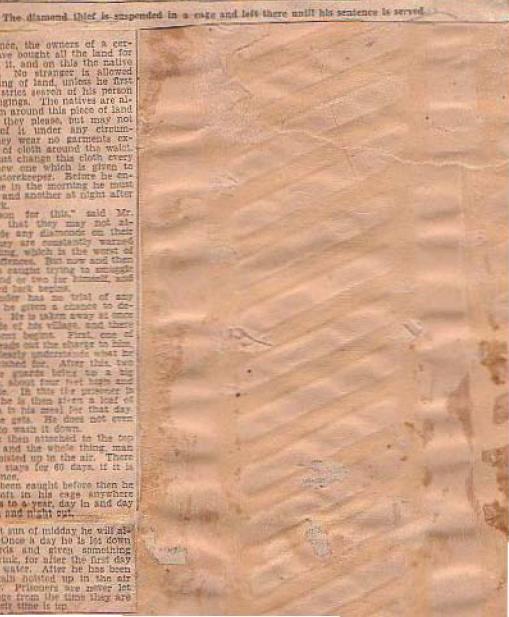
"The estender has no trial of any limit now in he given a chance to deferm himself. He is taken away at once to the exclude of the village and there are pumblement begins. First, one of the guarde crass pumbles to the charte trials on the charte trials on the charte trial to that he clearly unformante what he is being pumbled for. After this, two more of the guarde from the high and two feet wide. In this tir present he locked, which is the prince of the guarde of the guarde for the first and two feet wide. In this tir present he locked, which is the grant feet of the does not even have water to wait it down.

"A rope is then attached to the top."

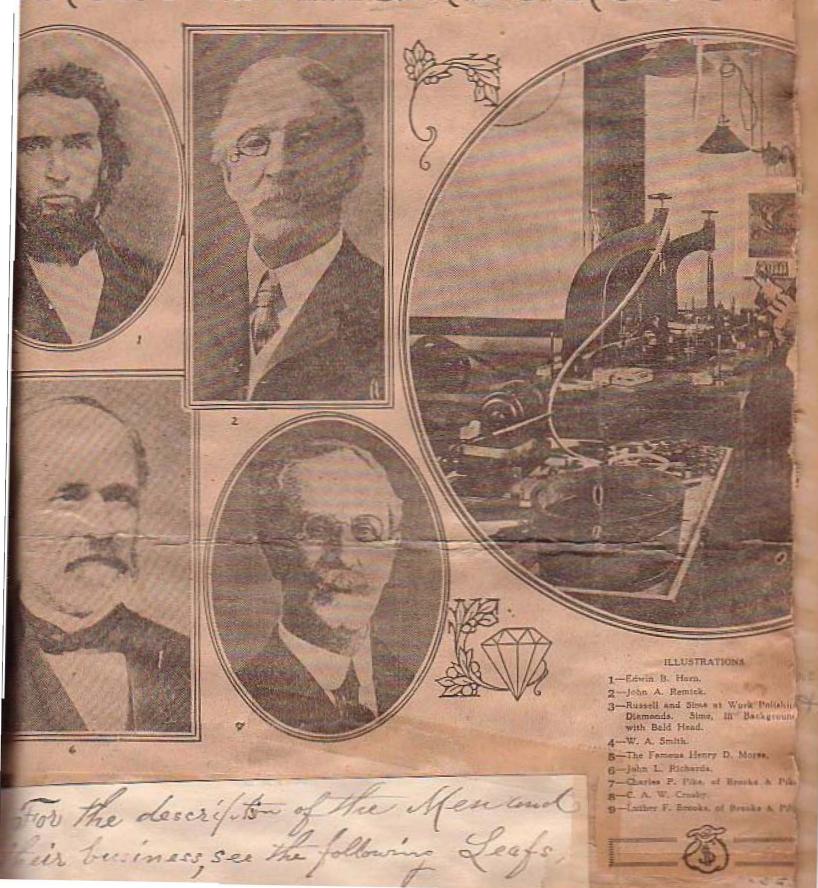
"A rope is then attached to the cop of the cage, and the whole thing, man and all, is heisted up in the sir. There the prisoner stays for 60 days, if it is his tiret offence, and the before they be

If he has been caucht before then he will stay aloft in his cage anywhere from 80 days to a year, day in and day out, night in and maht out.

"In the hot sun of midday he will sty most roust. Once a day he is let down by the guards and given something to cut and druk, for niter the first day he can have easter. After he has been ted he is again noted up in the sir lill next day. Princers are never let had of the eage from the time they are not in in their time is up



## oston A Brilliant Solitaire Ir



# The Diamond World



now, according popularity, just flow, according to Mr. Kingsley, with pearls, emeralds and rubles next in the order named. Sapphires, next in the order named. Sapphires, emeralds, cat's eyes, amethysts and garnels, cut so cabochen, are handled by this house, and odd necklaces of crystal and of

#### C. A. W. Crosby

"Chartle" Croeby, as he was known in the trade, was a leweler who always made diamonds an important part of his busi-ness. He started in 1852 nearly opposite Franklin street, on Washington, under the old Mariborough Hojel. From there he re-moved to the lecation that is now the core ner entrance to Jordan Marsh's, at the corner of Avon and Washington streets. When the Jordan interests leased the cor-ner, in 1880, he removed to the opposite corner and was still on the street floor. At his death, in 1894, he was succeeded to the corner and the first floor. At his death, in 1894, he was succeeded by his son, John D. Crosby, an enthusiastic yachtman and a very competent diamond, man. John D. died in 1913. Thereupon, the business was carried on by the Crosby estate till 1919, when it was taken over by some of the employees. It is one flight up, now, in the Crosby Building, and is called The Birmingham Company. The feunder of this old house was in great demand, in his day, for the appraisal of stokes.

#### John A. Remick:

John A. Remick is the grand old man of all the old time diamond designs of The Hub, for he is with in today. He is hale and hearty at ninety-two and berring and bearty at minety-two and berring hardness of bearing, seems an older than eighty. President Eliot and Hon. Thomas

hardness of hearing, seems on older than eights. President Eliot and Hom. Thomas N. Hart are his particular friends.

Mr. Remick was unique in the manner in which he carried on business. For thirty-five years he kept a dingy, dusty little store under the old Boston Museum. It was his boast that there was no jew-elry in his stock—merely loose gems. These could be taken out of the safes, shown to patrons from the original papers, mounted to suit the customer's laste. He was the first man in Boaton to make a business of appraising precious stones!

Henry Ward Beecher was a customer and a warm personal friend, as were Joe Jefferson, James T. Fields, William Warren, Annie Clarke, William Seymour, Jack Mason, Celia Thaxter, Professor T. Sierry Hunt and William Morris Hunt.

When the Museum was torn down in 1903, Mr. Remick asked what the rent would be in the new building. Ten thousand deliars was the reply. As he had been paying \$1500, he decided to retire. He has enjoyed home comforts at 360 Mariborough street since, with trips to Florida when the weather sets celd.

Moses S. Page

#### Moses S. Page

Mr. Page was born at Haverhill, N. H., in 1838, on July S. He used to say they began celebrating on his birthday through-

out the Nation.

After a little business experience in New Hampahire, he came to Boston in 1856 with \$20 in his pocket. He walked on Washington street all the way to Roxbury Washington street all the way to Rexbury locking for a job. He got one, at last; but in '58 started with a partner at 1 Salem street, corner of Endicott, as Felch

& Page.
Mr. Pelch withdrew and Mr. Page leased the entire flat-fron-shaped building. In this way, the shrewd and far-seeing young Page sot his own store tent for a reason-

The husiness was diamonds and jewelly, but money was leaned on valuable collateral as well. Mr Pase kept in the same store all the remainder of his life. He died in 1917, possessed of great wealth, and was succeeded by his youngest son, Harola, who had grown up in the trade.

Harold finally sold out to one Ransome, who had been a life-long business associate of the elder Page. Thereupon, the son started a wholesale diamond and jewelry husiness in the Jewelers' Building, on the fourth floor, where he is today. His elder brother, Edward S., formerly a lawyer, joined issues with him, and the style is M. S. Page & Co.

Mores Page was an extremely energetic

like Moses S. Page.

#### John B. Humphrey

if it contained more mel

John B. Humphrey

John Humphrey, if not amounced as such, would never have been taken as a diamond man. Yet, after Mr. Morse passed on, Humphrey was the best knewn cutter in Boston. It was quite by accident that he entered the trade.

This large, rather clumsy, frank-visaged, mirthful-looking man was a stale builder by trade, whom Henry D. Morse employed at experimental work on machinery used in the cutting and polishing of germ. Humphrey, in an incredible short time, learned the lapidary's art. He started a shop, with a partner, at 50 Bromfield street. The firm was Humphrey & Guild. Later, Mr. Humphrey had a place alone on the fifth floor of the old Washington Building. And when W. A. Smith teaseed on in 1896, Humphrey took over the starte. Mr. Humphrey, too has left us, but the business is still carried on in his name, in the new Washington Building. His sister, the famous singer Mrs. E. Hur \ rey Alern, by living, and his widow, now Mrs. Emerson, is with us today.

#### William A. Thompson

"Bill" Thompson was a tall, serious, well-beilt, handsome man, whose career is anytable. He was been in Neva Scotta in 1846, but was brought to Medford, Mass., when he was 6. He lived in that town the rest of his days.

rest of his days.

A natural born artist, and later an honored amateur in water colors, Bill Thompson served his apprenticeship as a manufacturing jeweler with Clarkson & Brooks, at 210 Washington street. When the firm was changed to L. F. Brooks & Co., Thompson was made foreman, a position he held for ten years. He then started a business as a manufacturing joweler in high grade goods at 383 Washington street. The firm name was Thompson & White.

When Mr. White withdrew, Thompson caused the droum of years to become true. He not only made special articles of gold, but had an office that was really an art parior. A particularly fine stock of gems could be rejected from and a beautiful and artistic design, drawn in the presence of

artistic design, drawn in the presence of the dustomer by the head of the cencero, could be shown at the same time. Bit Thompson, with his artistic tendencies, be-came a success. He prospered, and al-though long since dead, the house is in the Jeweiers' Building and bears his honored name today.

#### b. C. Percival & Co.

D. C. Percival & Co.

There have been four David C. Percivals and two of them are living. But the D. C. whose energy and integrity built up the huge whole mie business that bears his name was a Cape Cod hey who left his home at Sandwich at the lender age of cleven and entered the manufacturing lewelry house of Sackatt, Davis & Potter at Boston. It was here that the lad began his highly successful career.

In 1864, Mr. Percival, who had traveled for a long time for Sackatt & Davis, as the firm became known, started a stere for himself. He was twenty-five. For partners, he took Daniel Morels and Henry T. Sallsbury. They had one small safe and Mr. Percival saft years later, "We had hard work to 6th aven that."

After the Boston fire of '72, Sallsbury with ten and the style was shanged from David C. Percival, Jr. & Co., to Percival & Marris. In 1887, it was dissolved, Mr. Percival, however, continued at 892 Washington street, as D. C. Percival & Co. For a short time Dean Southwick was in the firm.

Next. Mr. Percival was alone and the

firm.

Next, Mr. Percival was alone and the business grew with leave and hounds. In 1895, a sen, D. C. Jr., was taken in alone with Frederick H. Pope. They stayed at 192 till 1898, when they removed to their present quariers on the second floor of the Jewelers' Building.

The pushing but kindly founder died at the age of seventy-five at his home in Commonwealth avenue in 1913. He was fond of rachting and owned the cutter.

Continued on Following Page

Continued on Following Page

#### Boston a

## Brilliant Solitaire

Continued from Preceding Page

Rondina for a great many years. His widow is living, as are his daughter, Mrs. Parker, and the two sons, D. C. and Lawrence F. The latter (Commodore Percval) is one of the best known amateur racing skippers in the United States.

Diamonds have over been a principal department in the concern, one of the inreest wholesnie establishments in Bos-

#### Smith Patterson Co.

Smith & Patterson is the firm name of a very large wholesale and retall jewelry and diamond house. They occupy several floors having immense area at the corner of Arch and Summer streets.

The founder was M. N. Smith, who came to Boston a green country boy, from Tunbridge, Vt. He worked first for M. C. Hood in the small-wave business. Being sent out on the mad, he just sort of drifted into lewelry. He started for himself in 1876 as M. N. Smith. In 1822, it became Smith a Patterson, about '87, Smith, Patterson & Co., about 1994, it was incorporated as Smith Putterson Co.

Margel N. Smith is still living and is president of the company. Nelson H., his son, is treasurer. Diamonds and kindred goods always take a large place in their stock.

#### Hodgson, Kennard & Co., Inc.

This wall known house at 25 State street was founded on Sept. 1, 1896, by Milear W. Hodgson, upstairs at 7 Temple place. The style was E. W. Hedgson. He removed to the street level in 1880, at at Temple placel.

. In 1830 he removed to 56 Devenshire street, and in 1906 to the present location. At about this time the house became incorporated with Arthur W. Kennard and James H. Parks entering. Mr. Kennard is a son of the senior member of the old wouse of Bigelow & Kennard.

son established a diamond culting shop in connection with his business.

Diamonds, and all the other fine gems, are ever an important department here. And under the personal supervision of that genial little veteran, James H. Parks, who is vice president, the business done in that line is enormous. Mr. Parks, though born in the "North Country" of England, came here at a tender age and learned diamond cutting as "one of Henry D. Morse's boye."

#### The Thomas Long Co., Inc.

This prosperous and wide-awake house was founded in 1870 by Thomas Long. The location was Aven street, and the bustness was the manufacturing of jet jewelty. From that they expended to the malting and wholesaling of all kinds of jewelry.

In time, a retail store was started where they are today, at 39-41 Summer street, but from there they were gween for a time, at 25 Kingston street and it 77 Summer street, only to return for a long period to 39-41 Summer street. They occupy the entire building, now, with inchimmence diamond, jewelry and eilverwarbusiness, but have outgrown the place. Still larger quarters are needed and they will remove to a building nearly opposite 39-41 after the holidays.

The house is incorporated, with Meters. Charles W. Davidson, president; Frank F. Davidson, treasurer, and George Moses secretary.

#### Homer's

Somewhere around 1880, Mr. J. Homer. a former employee of A. Stowell's, started a jewelry and optical ussiness at 426 Washington street, the location of the presentday Filone store. In 1883, the house removed to its present well known address. 45 Winter street the onl near Tremont.

The husiness has ever been the selling of optical goods and coverty jewelry and sliverware, but diameds and precious stones have for a letta time been an important feature.

In 1923, the concer became a stock company under the stle of George 10 Homer, Inc. Mr. Gerge E. Homer-a brother of the foundm-is president and le an indefatigable worter, a most courteone centleman and a bgh example to the Building of today. younger members of a honored trade

This energetic man emitted for frienty years at the Mechanics Fairs and has always some new ideas mening in his fertile Brain for povolties a silverware and spuvenits. He originaed the pairs of miniature earthen bearnets, with perforated, sliver-plated cours, that come in

pot is marked: "Boston Baked Beans" and the contents, needless to say, are intended

to be sair and pepper.

During the Spanish War, George Homer sold 3000 gross of especially designed war spooms. Though largely dealers in diamonds and fancy stones, Homer's is a foremost house in the handling of novelty and souvenir silverware.

#### Arthur H. Prav.

Mr. Pray is no longer selling diamonds, sor is he cutting them. He learned the proctical part of the business from the great Henry D. Morse, but for some years, now, his activities have been limited to the wanaxement of estates of which he is trustee. He is in Boston now, though parally at this time of year he is resting in California.

Arthur Pray was a coasin of the Mr. Pray whose wealth enabled Henry D. Morse to climb so high. Arthur was sent to South Africa by the Morse company in 1876. where he stayed six months at the mines. On his return he started for himself as a dealer in diamonds and remained in the business until his ratirement a few years ugo. He was a cutter. In his day, and had a place in Bromfield spect. Later he shared an office at the corner at Franklinand Washington streets with J. Wastel and J. S. Blake. Mr. Pray to in the health at sixty-six and is the same agreeable man to meet.

#### George H. Richards, Jr.

Mr. Richards did an enormous business, wholesale and retall. The line was diamonds, lewelry and allverware. He was at the zenith of his career during the 'so's and into the 'Bo's. In those days he was supposed to be worth a large sum of money.

After his sudden death, his non, Herbert, and his brother, Charles, ran the establishmost for a while. Its end, we cannot recall. This store was directly over Collins & Pairbanks' hat store on Wash-

Ington street.

#### Marrill Bres.

Charles P., Alvin T. Morrill and Irving Smith formed this once well known firm of wholesale diamond dealers and jewslers. They flourished in the eightles and nineties right over the entrance of the Mariborough Building, the site of the new Washington

Charles P. Morrill is living and is in the real estate husiness over in Charlestown. Of Alvin we do not know, but Irving Smith has passed away.

#### Harrington & Freeman

This firm has always kept the store in which they started in 1879. Mr. Freeman While at 56 Devenshire street Mr. Hedge, a box at 50 cents the mir. Each bean- has been dead for twenty-five years, but June, at the age of seventy-saven. This house is in Court street, near Cornhill, and it has always carried a fine stock of dismonds.

Luther Harrington, who ran the store so many years, was a life member of the Winthren Yscht Club. He joined it when it was called the Great Head Yacht Club many years ago. He was an enthusiastic racing man, and was extremely conadjections in all his business affairs and sports, as well. He had a most amiable disposition and was leved by all the oldtimers in the trade. Lather E., his son, now runs the store for the estate.

#### Frederick M. Harris

And now we come to one of the real old stand-use of Boston's diamond trade The tall spare, sandy-complexioned and very loyable Fred Harris seems to be the same Fred whom we know forty years ago.

This off-hand, careless appearing old expert was born at Staugaton in 1848, but was travelling under the direction of Colonel James M. Lorustreet in 1871, for Spokett & Davis of Boston and Providence. He kept this job till '79, when he entered the employ of Morrill Bros. Next, he travelled for Smith & Knapp, of Maiden Lane two years more with Morrill Brest again, then he became associated with John B. Humphrey, where he stayed for a long

He started the firm of Charles E. Guild & Co., and in 1894 became a member of Harris & Lawton, In 1908 it was Harris & Lewion, Inc.

Fred (no one in the business ever thinks of saying Frederick) has been a life-long daystee of the rod. The entching of brook front has ever been his fact. He has one son dealing in diamonds and one in the dairy business. The sons, it is said, have the same fishing instinct ne their dad.

Harris & Lawton changed ownership last year, with Fred Harris's son and a coustn of Mr. Lawton's taking up the work. But the elder Harris is there every day and is in constant demand by his old clientale. They keen in the Jewelers' Building, on the sixth floor.

#### Luther F. Brooks

While not a diamond dealer, Mr. Brobks was all his life engaged in a closely allied pursuit. He manufactured the highest grade mountings for precious sinnes.

Luther Brooks served his time in the shops or Henry D. Morse; then, with a partier, started manufacturing. The style Mr. Ambrose A. Marito, a retired butider sor Clarkson & Brooks When Clarkson withdrew, it was Luther B. Brooks for a while, but as Mr. Brooks was on the road became necessary. He got a most cap- mond-cutting shops in New England, and served in a like capacity for Herman Levy able one—the foremen, Mr. Charles P. Pike, that they are in Beston. One of the best, of New York, For Mr. Lavy he split a the bulk of his time a managing partner

Luther T. Harrington left us only last The house remained as Brooks & Pike known of these is that operated by Bases I until the death of Mr. Brooks around 1898 & Sime. Two of the workmen bought the business out (Adams & Singleton) and they kept it trade, was born at Brooklyn, N. T. in 1982 going until a very recent date.

Mr. Brooks was of striking appearance, He suggested a composite of Kentucky colonel and artist from Bohemian walks of tife. The broad-brimmed but, moustache and imperial, and the bessely flowing the the carelessly stooping shoulders stamped him for what he was. He was a veteran of the Civil War and an artist of wonderful ability.

Kind-hearted and lovable we always found him. His partner, Mr. Pike, says; "Mr. Brooks had one of the finest charnoters of any man I have ever known."

"Colonel" Brooks, as he was often called was fond of fishing, and also delighted in spending an hour each evening, in the company of W. A. Smith, looking on at the games of billfards at Clark's Hotel, Parker's or Young's,

#### Charles P. Pike

Mr. Pike is with us teday. His 76 years have effected the jet black hair and mustuche and a slight deniness hampers him to a triffing extent. Apart from that, he is the same tall, straight, spars, alors clear-headed man who worked so dillerently that he was enabled to retire when he was 50 years old.

Precision, extreme neatness and a wonderful facility in expressing himself well are endowments of this very able man. He is a natural born artist and designer and was a master mechanic at his trade. Few professional scamen are his equal at winning races in a pleasure yacht, and he has been a life-long devotes of the red and gun. He is so gifted at whistling that it is a treat to listen to him. With apparently no effort he can trill like a bird,

"Charlin," as Mr. Brooks affectionately called him, was born in Friand street, but lived a great many years at Jeffries Point. He, was commodors of the Jeffries Yacht Club while living there,

Mr. Pike served seven years in the shop of Riplay, Crosby & Peabody in the old Washington Building. The pay was \$1 a week with an increase of a dollar a week excharger. After becoming a journeyman he worked for Thomas Clarkson and then for Mr. Brooks, who made him a partner after the first year.

about thirty years ago Mr. Pike bought a fine home at Winthrop, where he has his own private where and landing stage at the rear. His hobby is to sail, fish and sheet in the company of his besom friend

#### Russell & Sime

"Eddie" Russell as he is called by the He came to Boston and became "one of Henry D. Morse's boyn" In wi be was cutting for Randel, Baremore & Bulliage in Maiden Lane, in the far Tillian, where be stayed eleven years. While with men. he demonstrated at the Chicago World's Fair.

The year 1800 saw him bark at Booton where he opened a chep for M. W. Hedgers (now Hodgson, Kennard & Co., Inc.), by being a stockholder in the concern. In 1849 Me. Russell sold his stock and formed a partnership with Mr. Allan D. Siese They are on the right floor of the Jawelers' Building, where, petities cutting, repairing and polishing they keep a time stock of dismonds for sale. The partners do the antunl work themselves.

They recut a five-paret stone, les years ago, giving th eighty-four facets, bringing out more brilliancy and resulting in an apparently whiter stone. This job was for Mr. Whittemore, of the E. H. Harn Com-

Allan Sime was born in Cambridge in pany. '05. He learned cutting at the John B. Humphrey shop, starting when a lad of elateen. He worked for a long time at Tiffany's before joining with Mr. Russell in 1909.

#### Josiah J. Van Buren

We have reached the last of a long string of old-time diamond man whom we can remember off hand. But this man was by no means least. Thirty-five years ago, in the whole United States, there was but one man who could split a diamond! He could cut and polish as well He was Joeish J. Van Buren, who lived out at Roxbury, in Waverly street.

"Sinh" was a Hollander who learned his trade in Amsterdam with one of the largest concerns in Europe. His father was a wholerale dry goods man and the son landod at Boston on his way to May York At Gotham, he was to conduct a brunch of his father's European house.

While in the petropolis, Van Bures and A fellow countryman who was groing to get established in making glastery culture. The expert Zorish recovered the that he splitting he could get four or free curters where he was getting one, and armed for \$100 a week to do the work. The bemust have a certain amount of time to look out for the dry-goods begge.

Van Buren's regulation, in America, as a diamend expert, was made

He accepted a fine offer to go to Hallimore, stayed there for a while, then went to Boston to work for Mr. Mores. The tata ter sent him to Europe at a beyor and he 93-karat diamond that was made up as a pair of ear-drops and sold for a fabulous

That was the largest stone that 'Sigh ever split, and he said it was a beauty. It had one imperfection in the heart which the cumning and the skill of this artist divided along in the cleavage.

In 1865, Van Buren was married at Hoston and five years later he removed to Fall River where he engaged in the drygoods trade and also did some business as an auctioneer. His wife's death caused him to return to Boston, where he lived the remainder of his days. He had two girls and two boys. The girls were musical and one was famous on the concert stage.

The aging Van Beren now engaged in the selling of diamonds and all other kinds of precious stones. He had no store, but exerted many thousands of dollars worth of goods in great wallets such as all travelling men in the business use. These are invariably made to fit inside vest

pockets.

We may best remember Van Buren as a curb-stone dealer, in his later years, but all will have to admit that no diamond man in Boaton had a more striking personality. He was not unlike President Taft in build, was dignified and commanding in appearance and always were dark clothes and a tall, slik hat. His raiment, however, seldem looked sple and span. The "stovepipe" always suggested the idea that it had been rubbed the wrong way, the suit of clothes and the overcoat, with its velvecollar, soldom surrendered to the tailor's goose and the wrinkled vest that covered the owner's roundity was forever gathering sakes from a short, black "but!" which "Slah puffed through a battered and stained mearschaum holder.

In speech and in walk, this foremost diamond expert of his day was very rapid, in short, he was a strong man both mentally and physically and he enjoyed using

"Morse's Boys"

Here are some of the names of men who learned diamond-cutting under the great Henry D. Morse: Jake De Yeung, now living and in business on the seventh floor of the new Washington Building; Charles at Field, living at Melrose; James H. Parks, vice president of Hodgson, Kennard & Co., Inc.; George H. Hampton, at Tiffany's; William White, David Landsey, William Chark, George Melville, Charles Borwn, Richard Posdick and Edward Cor.

In closing, it might be well to state that another Bosten man contributed an invention that has lightened the lapidary's work. One Passmore got up a machine that will cut comi-precious stones. He went to New York, started the cutting house of Passmore & Zell and later, the American Gemi-

Cotting Company.

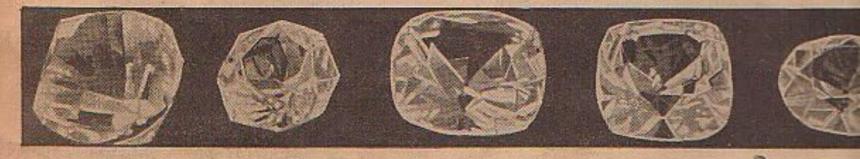
Morse Dimmendo

Field Digwond Sufety dwegers. Acknowledge by all diamond merchants using themto be the best for elesplaying or holding a stone so danger of injuring or droping it when properly Secured,

## Why Diamonds Ought to

The Koh-i-noor. The Pasha of Egypt. The Star of the South. The Regent.

The Pigo



#### The Most Celebrated Diamonds in the World, Natural Size.

JOHANNESBURG, So. Africa, Feb. 26.

IAMONDS are enormously expensive. they ought to be much cheaperand there is a very good prospect that they will be much cheaper before

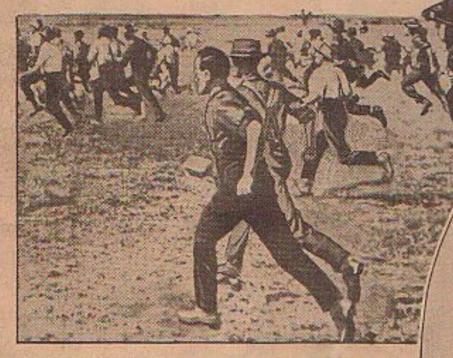
It is not because diamonds are scarce that they are so expensive. There are plenty of diamonds, but they are not allowed to come on the market in large quantities. A little group of monopolists have gained control of the diamond industry, have marked the prices up and, holding back the abundant supply, they feed out to the market only enough stones to keep the prices up.

But recently several entirely new sources of diamond supply have been discovered, and it is doubtful if the diamond monopolists can get control of these new sources of diamonds, which the public hopes will soon flood the market and break the pres-ent exorbitant prices of these sparkling

Most of the diamonds that are now on the market come from the diamond mines in South Africa. The Diamond Syndiente of London controls 95 per cent of the dia-monds taken out of these mines. In the last few months diamonds have been found on land not belonging to the syndicate along the streams and rivers and the surrounding country, in the neighbor-hood of Durban, in Natal and Cape Town, in South Africa. Thirty thousand men, women and children have rushed into these new diamond fields and are digging for gems which are worth all the way from \$100 to \$1,000 in the rough state

in which they unearth them. And still more recently a new field of diamond deposits forty miles long has been discovered and will be opened to working this week. Twenty thousand eager miners are on the spot waiting the Government signal to stake out their

The newly discovered diamond district is Government land belonging to the Union of South Africa, and natives and settlers are allowed to stake their claims, as in the old days of the gold rushes in



Photograph of the Rush to the Diamond Fields in South Africa to Stake Out Claims.

California and more recently in Alaska. A special force of 200 police has been mobilized at the Granfontein alluvial field near Lichtenburg, where the eager crowds are assembling from all parts of the Union.

All the prospectors will be started from a specified point at Friday noon under Government supervision, and the fleetest of foot will be able to peg out the choicest claims. The distance to be covered by the runners, many of whom are professionals hired for the occasion, will be as much as three night in some instances. One of the professional runners has been promised \$2,000 if he pegs a particularly favored spot.

Apart from the peputed richness of the newly discovered diamond field Granfontein bids fair to become the world's record rush for diggers, seizing the last opportunity before the enactment of new legislation prohibiting the present method pegging claims.

Of course the thing to do, the diamond

monopolists concluded, was to buy up these alluvial dismonds, as they are called, and keep them off the market. Agents of the Dia-mond Syndicate were scattered through the region to open offices and begin to buy in all the diamonds that were offered. But so many thousands of diamonds have been found that the buyers for the syndicate are in despair of cornering this new output, and an

Toes of a Kaffir M

Native Diamond-Min

appeal has been made to the Government of South Africa to close down the dismond fields.

tion until

## to be Much Cheaper Soon

The Pigott.

The Sancy.

The Polar Star.

The Shah of Persia.

The Blue Diamond.





mond Mines Where the Natives Are Examining the Earth From the Mine for Sparklers.

managing directors of the famous De Beers Mines, made this statement in London recently:

"Something must be done to alter the present situation. The alluvial diggers are actually producing more than the miners. If this continues a collapse in the diamond industry, which provides the South African Government with \$15,000,-000 of income every year, is sure to

Everything will be done by the Diamond Syndicate to try to secure these new alluvial diamonds and keep them off the market. But it is predicted that the sup-ply of alluvial stones will continue to pour in until the buying capacity of the monopolists has been exhausted.

And at almo the same time that the alluvial diamor were discovered recently in South Afric he news of another great diamond field sched the cars of an in-terested world. Several thousand acres of diamond-bearing land is reported to have been discovered in South America.

The mining of diamonds is not a complicated or very expensive process, and it does not require highly paid, skilled labor. In the South African mines native Kaffir laborers do most of the work.

The diamonds are found in a blue clay which is brought up out of the mines and spread out on what is called a "weathering floor."

There are often 10,000,000 carloads of blue clay lying out in the sun about Kimberley containing perhaps \$25,000,000 worth of diamonds. However, it is no easy matter for the private citizen to help himself to this vast treasure. The weathering fields are watched day and night by armed guards.

From the weathering floors the blue clay is carried to the

where more cleansing, crushing and sorting goes on. Out of every 100 loads of clay about one load of diamond-hearing gravel is taken. All the gravel obtained in this way is passed through what is known as a pulsator. This is a sort of hopper from which the gravel drops, a small amount at a time, upon a table which has a thick coating of grease under several inches of running water.

The diamonds being the heavier, drop through the water into the grease, while the gravel is carried away by the flow of water. The gem-laden grease is put into perforated steel buckets and sunk in boiling water. The melted grease floats to the surface and may be poured off, leaving the diamonds.

There is, therefore, no very complicated or expensive machinery, or high cost labor, involved in diamond mining. If the alluvial diamonds from South Africa or the output of the new South American fields get past the clutches of the London Diamond Syndicate, which controls the supply of the prices of diamonds all over the world—the monopoly will be broken and a diamond which now costs \$2,000, may perhaps be purchased for \$300 or \$400, as it used to be. The poor, strug-gling roung man's engagement ring for his bride-to-be will not be such a distressing problem.

iamond-Mine Policeman Searching the a Kaffir Miner for Hidden Diamonds.

nment Nobody realized how serious the situation was for the diamend menopolists until Mr. Solomon B. Joel, one of the e dia-





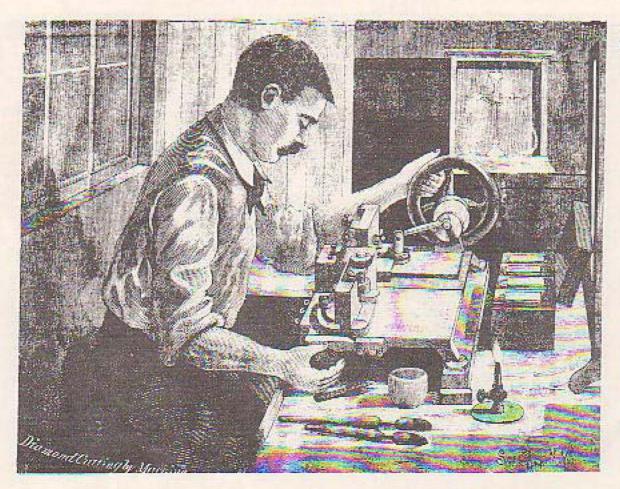


Dinguonds and Precions Stones.

136 Wash! St Cor Summer.

Beston.

Henry D. Morse (1826-1888) was the first man to train American workers to cut diamonds. Before that, all diamond cutting had been done in Holland or in America by Dutch immigrants. Morse could be considered the father of the American diamond cutting trade. Prior to setting up his own business he took leave from his home town of Boston to learn cutting in Holland. Later, he cut in Boston with some Dutch people. Two of his coworkers were Simon and Jacob DeYoung, Mr. Sydney DeYoung's grandfather and father respectively. Mr. Morse started his business in Boston in 1861 with several Dutch workers but slowly began to train American born workers. His shop foreman for twelve years, Mr. Charles M. Field, acquired a patent in Boston on April 4, 1876, for the first diamond cutting machine in the world (shown below with Mr. Field). This machine was introduced to Europe very shortly after.



(26)



#### UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY Geologic Division 8426 Federal Building Salt Lake City, Utah 84111

March 9, 1970

Earle H. Barlow, Jewelers 26 West Street Boston, Massachusetts

Dear Sirs:

For some time I have tried to locate the papers of Henry D. Morse. pioneer diamond cutter of the United States. Replies to my several inquiries to some of his family, The Bostonian Society, and to other sources indicate that your firm is the successor to the old Morse firm, possibly through the firm of Charles Foss. If so, I am hopeful you may still have some of the old ledgers, account books, or correspondence of the Morse firm. If not, is there any record of the disposition of such records, or do you have any suggestions where I can make further inquiry regarding them?

If such records are yet to be found, they could help fill a gap in the history of the founding and development of the diamond cutting industry in this country. It seems almost ironic that, in spite of Morse's pioneer work and outstanding reputation, there is practically no public record of his firm's transactions. Any assistance you can give me in finding such records will be greatly appreciated.

Sincerely yours,

Tomeson Suggest Lowell S. Hilpert

Research Geologist

Dear Mr. Hilpert:

Your letter (sent to Boston)has reached me here in Plorida(where I spend my winters)having retired some time ago.

In answer to your question - I do have the nearly complete records-books-dorps-gages -etc. of the Henry D. Morse Diamond Cutting Works in Roxbury, Mass. Also his Day Book and Press. There is also a picture of Mr. Morse which was in the office of Morse & Foss when I first came(from Fifth Ave.N.Y.) to work for Charles W. Foss. in 1919. I purchased his business in 1940 and retired in 1961

Mr. Morse's grandchildren(The Channing family) of Wellesley ans Sherborn, Mass. have been customers and friends for a long time(in fact most of them have passed on time flies).

At one time Mr. Henry M. Channing had thought that it would be suitable to try Old Strubridge Village after all it belongs here in New England.

Would you like to write me again and let me know what your plans would be regarding it and what you would do with it is of importance to me. At the present time it is stored in New England.



## UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

"FEDERNETERVIEW TERVIEW CREEKAGG 60225

8426 Federal Bldg., Salt Lake City, Utah 84111

May 27, 1970

22/3

Mr. Earle H. Barlow 216 Normandy Avenue P. O. Box 2085 New Smyrna Beach, Florida 32069

Bear Mr. Barlow:

Since writing you in late March I have been advised that any information you desire regarding policies on the acquisition of private collections by the Library of Congress and the Smithsonian Institution can be obtained from the following individuals:

Dr. Philip W. Bishop, Chairman Department of Crafts and Manufactures Museum of History and Technology Smithsonian Institution Washington, D. C. 20560

Dr. Roy P. Basler, Chief Manuscript Division Library of Congress Washington, D. C. 20540

Some time when convenient, I would be pleased to hear from you whether the Morse materials include any business correspondence or journal entries that pertain to the 1870-72 period of his firm's operations. Also, if you could send me an inventory of the items in the collection, I might be able to give you more references on museums that might be interested in the collection.

Sincerely yours,

Lowell S. Hilpert Research Geologist



## UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

#### PEDBRALHIENTER, CENVER-COLORADO 902001

Rocky Mountain Mineral Resources Branch 8426 Federal Building Salt Lake City, Utah 84111

March 31, 1970

Mr. Earle H. Barlow 216 Normandy Avenue P. O. Box 2085 New Smyrna Beach, Florida 32069

Dear Mr. Barlow:

Your letter of March 23 regarding the Henry D. Morse materials came to me as a pleasant surprise. Presumably my letter of March 9, addressed to 26 West Street, Boston, was forwarded to you.

My immediate concern is to develop an account of Morse's part in the establishment of the diamond cutting industry in the United States which I hope to include as background material for an official report on the natural occurrence of diamonds in this country. I also hope to develop information on the better known native stones, such as the Devey diamond, which Morse cut, and possibly trace some of the information that might remain about some of the stones that were used in the notorious diamond swindle of 1872. Some of the latter were sent to Morse for cutting by Samuel L. M. Barlow (a prominent New York attorney) in early November 1871. Some had been cut prior to November 24 and the rest probably were cut before mid-December of that year. Do Morse's books identify such transactions? What is the nature of the books? Do they contain journal entries, are they account books, or do any of them contain correspondence? Are they inclusive for the life of the firm, or do they pertain to some specific periods?

Morses materials will likely be of interest to a number of archivists, particularly in the Boston area and, possibly, at the national level. They do not seem to be items that the U. S. Geological Survey could justify acquiring, but seem to be more suitable for such institutions as the Congressional Library, the National Museum, and the Smithsonian Institution. Answers to some of my questions would help in making any specific referrals to these designated national institutions. In any event, I will be pleased to hear from you and will be glad to assist in any referrals you may desire.

Sincerely yours,

Lowell S. Hilpert Research Geologist

HAS SON LONG THE SOUND THE

(Notick) OLympic 3-4523 Bus. OLympic 5-0294 June 12, 1962

Earle H. Barlow, Esq. 31 West Street Boston, Massachusetts

Dear Mr. Barlow:

It was rather nostalgic to have your formal notification of June 1 to the effect that Morse, Foss and Barlow have finally vacated the old quarters at 120 Tremont Street. It was a surprise to me to read that you had arrived at the retiring point where you have no excuse for not dropping in on me at Little Pond, where I am nearly all the time, day and night. I shall look for you.

Also, should you have any memorabilia relating to my grandfather, Henry D. Morse, I shall appreciate it, - even to the diamond cutting tools, which I would offer to a museum.

Recently, my daughter, who lives in Southampton, Long Island, saw a picture by Mr. Morse of a deer, which used to hand in our hall in Manchester. It was acquired by Mrs. Markoe who gave it to the beautiful Art Museum which she gave to the Town of Southampton.

Some time ago, I suggested to Old Sturbridge Village that they establish a memorial for the manufacture of jewelry and the work of engraving, such as was done by Henry Morse and by his father, Hazen Morse, in the early part of the last century. So far, I have heard nothing from them and am on the point of sending them an addition to my letter.

I hope that your retirement does not mean that your health has deserted you.

Very sincerely,

Hy Change

HMC:B

Henry M. Channing . South Street . Sherbarn, Massachusetts May 27, 1960 (Natick) OLympic 3-4523 Bun. Olympic 5-0294 Mr. Barle H. Barlow 120 Tremont Street Boston, Massachusetts Dear Mr. Barlow: You have been named one of the appraisers of the estate of my sister, Barbara Channing Gregg, who died recently; and the real reason for naming you was that you seemed to be the appropriate person to examine and value the ring my sister had, which contained the four diamonds cut by Mr. Morse for his wife and daughters.

I will take this ring in to you at the first opportunity.

Very truly yours,

My making

HMC:B

Henry M. Channing - South Street - Sherborn, Massachusetts

(Natick) OLympic 3-4923 Bus. OLympic 5-0294

June 14, 1960

Mr. Earle H. Barlow 120 Tremont Street Boston, Massachusetts

Dear Mr. Barlow:

Many thanks for your prompt action in the appraisal of the Morse diamond ring which belonged to my sister Barbara Gregg.

Will you please ship it, insured, to my sister:

Mrs. Robert W. Rivers 200 Miramar Avenue Santa Barbara, California

sending along receipt for her signature - form of which I enclose.

Sincerely yours,

A State 6/29/60

Carried Charles Constituted on the Carried Constitute on the Carried Constituted on the Carried Consti

MASS SCENTS 3

Mr. Earl H. Berlin.
120 Tremont St.
Boston,
Mass.

THE BANCH 201 GREAT PLAIN AVENUE WELLESLEY &1, MASSACHUSETTS

WELLESLEY 0057 M

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and also for hing hind to my
and also for hing hind to

Grege, who know nothing what

nex more ante ac dance & the

femaley thorumous ay my gradpathet + mr. Fors. I my into

9 me an to get my ing into

you every year. Once solvant

my seg at all tutthe ring m cat from my finger & fee from my frights! that mas protable when the shops sape to enjoy it. I can fee Thanks you for chough Barbaro Charming Trogg. mon. 9th may. 1949.





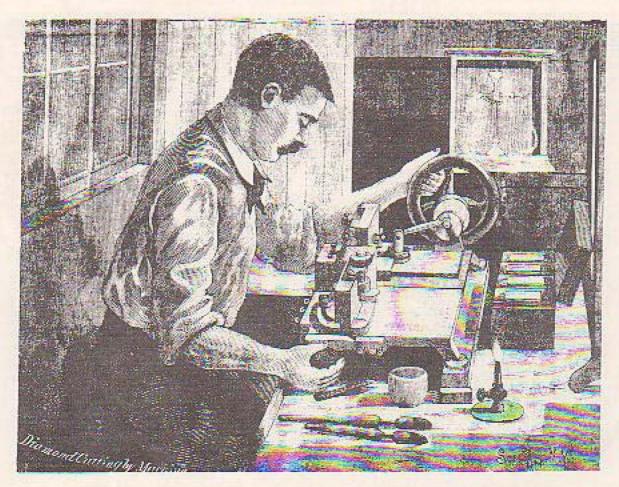


Dimmonds and Precions Stores.

136 Wash! St Cor Summer.

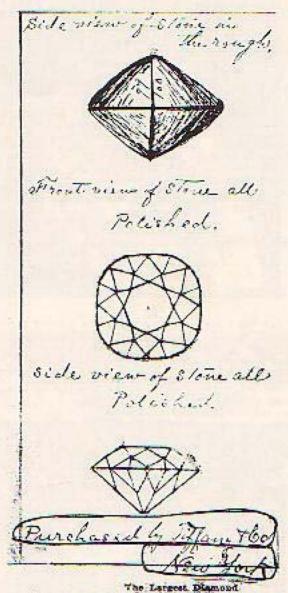
Beston.

Henry D. Morse (1826-1888) was the first man to train American workers to cut diamonds. Before that, all diamond cutting had been done in Holland or in America. by Dutch immigrants. Morse could be considered the father of the American diamond cutting trade. Prior to setting up his own business he took leave from his home town of Boston to learn cutting in Holland. Later, he cut in Boston with some Dutch people. Two of his coworkers were Simon and Jacob DeYoung, Mr. Sydney DeYoung's grandfather and father respectively. Mr. Morse started his business in Boston in 1861 with several Dutch workers but slowly began to train American born workers. His shop foreman for twelve years, Mr. Charles M. Field, acquired a patent in Boston on April 4, 1876, for the first diamond cutting machine in the world (shown below with Mr. Field). This machine was introduced to Europe very shortly after.



(26)

1. Rough Dlawsad Rough Weight 124 15 Mi L'allo It owners N. Jans Culting Commerced #188 . Frinished from 11# 1884. Polished by O. M. Field Plan view of the sough, Tope mode 350 . Siell weight when



The Henry D. Morse Company was constantly concerned with the development of their firm by the use of new instruments and ideas. Morse and Field worked together to devise a method for cutting diamonds at new angles to produce a more brilliant stone. Some thirty years later, Mr. Marcel Tolkowsky carried on with their work to come up with the American cut or Ideal cut by producing, by formula, the exact proportions necessary. The Morse Company was interested in appropriating a large stone to prove their ability to cut outside of Amsterdam. The DeYoungs were instrumental in arranging for the Morse Company to receive a rough diamond of

evo. cut in America has just been finished by Mr. Henry D. Morse of 138 Washington street, this city, for New York parties. It is of the South African species, and when put into Mr. Morse's lands rough its weight was 125 carata, His estimate of loss in cutting brought the jewel down to Xiy-two carats, but by skilful handling in the poess under his personal care the stone has been made to weight servett norrapis Though not a white diamond, the priistly culting of the facets gives it a high degree of luminosity. It is double the weight of the largest finished stone ever cut on this continent, and is but twenty-eight carats smaller than the famous Kohtnoor. Is has been given a high polish by Mr. C. M. Field, Mr. Morse's fortuna, whose patience in the redious finishing protess is highly creditable to him. The perfection which the art has reached in this contorty is principally due to the study care it. I jo gment of Mr. Worse.

125 carats. Mr. C. Field of the Morse Company did the cutting, and the stone was very successful in bringing much notoriety to the firm and to the idea of American diamond cutting. Copied above are the sketches and notes of the original workings of Mr. Field which are contained in our library. The diamond was completed at 77 carats and was the largest diamond cut in America up to that time and for several years thereafter.

## HENRY D. MORSE & CHAS. M. FOSS,

## DIAMONDS .

AND OTHER CEMS

PHILLIPS BUILDING, 120 GREMONT ST.

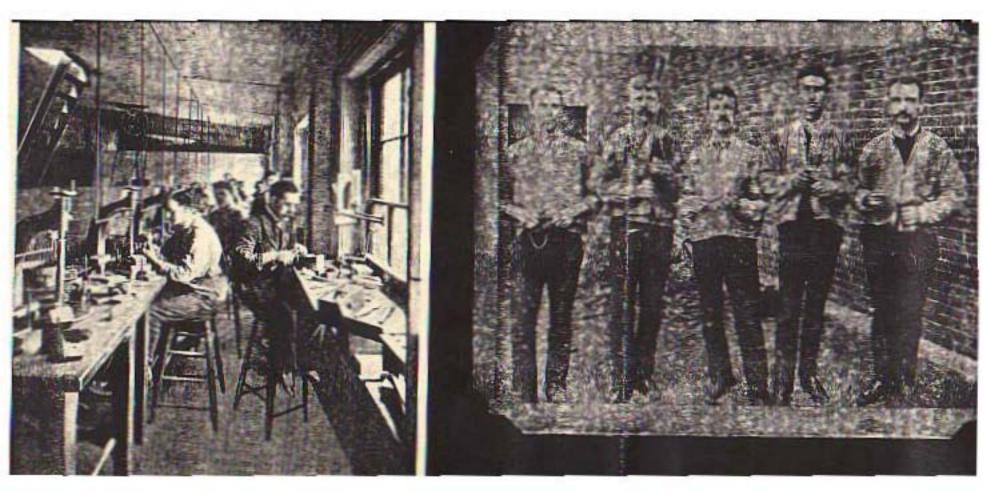
BOSTON.

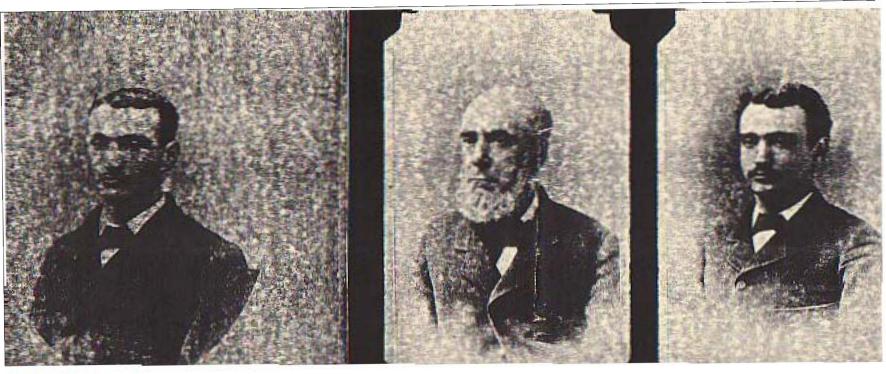
Henry Morse whose advanced ideas of Diamond Cutting in 1870 influenced the change in cutting proportions from the Dutch to the American cutand are todays proportions for Diamond Cutting

Henry Morse's Diamond Cutting Shop.

The first diamond cutting establishment in this country.

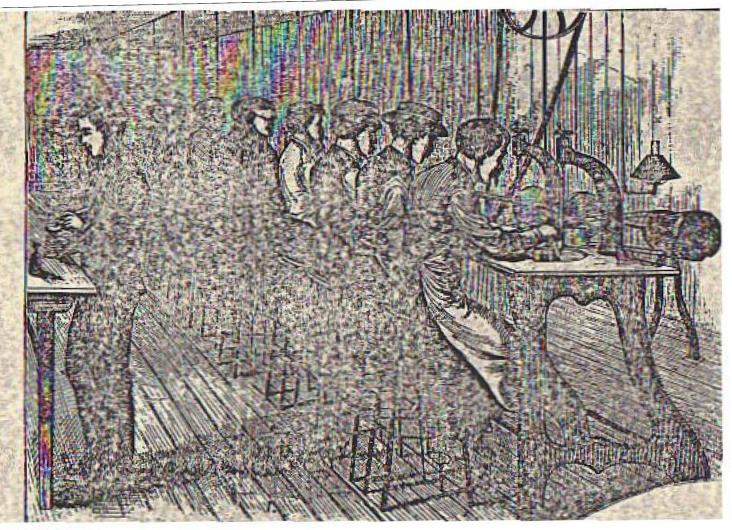








Henry D. Morse, a Boston jeweler, was convinced that he could cut a better diamond. He formed the first American diamond-cutting firm in 1860 and did just that. His exacting designs, stressing proportion, revolutionized taste in gene cuts. His technological ingenuity transformed the industry. Among the old-world craftsmen first employed by Morse were Simon and Jacob De Young, the former pictured here as an apprentice.



In consideration of an agreement of the Morae deamond cutting a. to instruct me in the art of Deamond Polishing, I hereby, agua to give to them my services for a term of fin years from date, working diligently and faithfully nime hours per day, excepting Legal Holiday, well tim ceeks during the Hemmer months for a recation, They agreeing to pay one four declars per week for the first year, five for the second, six for the third, Seven for the fourth, and Eight for the fifth year, they also further agree to reward me, provided, I cany out this agreement in full to the end of the fifth year ) in a seum which shell be equal to one dollar per hand for every kand of diamonds which I shall polish in a worker aulike manner, after first polishing enough at 2,25 per karat to equal the aux paid in oash as above agrand upon, and it is also agreed that no part of The above several can be drown or claimed under any consumtaines before the expiration of the fire you above mentioned, soon will the remark or any part of it be pard willow this agreement on my part be fulfille?

H. Morse Co Workers Contract

In consideration of an agreement of the Morse Diamond cutting Co., to instruct me in the art of Diamond Polishing, I hereby, agree to give to them my services for a term of five years from date, working diligently and faithfully nine hours per day, excepting legal Holidays, and two weeks during the summer months for a vacation, They agreeing to pay me four dollars per week for the first year, five for the second, six for the third, seve # 500 for the fourth , and eight for the fifth year, they also further agree to reward me, provided I carry out this agreement in full to the en d of the fifth year) in a sum which shall be agreed to one dollar per karat for every darat of diamonds which I shall polish in a workmanlike manner, after first polishing enough at \$2.25 per karat to erual the amount paid in cash as above agreed upon, and it is also agreed that no part of the above record can be drawn or claimed under any circumstance before the expiration of the five years above mentioned, not will the reward or any part of it be paid unless this agreement on my part be fulfilled.

But Mark to 18. How Search March 1.1878. Schoolule of Property of morke deamond Company. ales wall to for But days that Out Denuoned about 775Kt B. G. of Hald ac does not but and 75.000. Kough Dea & Port 1.000. on his books - The book to Machinery , Vofes your in M. J. 2,500. will dend on mening, he done? Colored Stones, settings re 1.500. election to Receivable frew bury on war gother and 10.000. Gash zero. fed not him to distill -92,000. Man Pary Days to will prouse Les amount due Middes, Ratory 18.000 blue ber becke out would them 74.000 to your a it don't think I subject to interest of A. E. Moner. Sur fari it my blas chits All at form was it have Jures in Mich -Henry D. Morso. May and home

# Stern Bros. & Co.,

Cutters and Importers of

# DIAMONDS.

WORKS:

29 & 31 GOLD STREET, 33 TO 43 GOLD STREET, NEW YORK. AMSTERDAM:

2 TULP STRAAT.

30 MAIDEN LANE, NEW YORK.

#### New Diamond Cutting Works in New York.

The organization of a diamond cutting and polishing establishment at 29 and 31 Gold St., and of an annex at 33 to 43 Gold St., by Stern Brothers & Co., marks quires judgment and long experience. The rough stone is imbedded in cement and a dull-edged diamond is rubbed neross its surface, so as to leave an indentation that determines the line to cleavage. The operation is then respected with a diamond having a slightly sharper calcal and finally with one as keen as a

particular section to remain exposed. As soon as the lead has hardened, the pol-



cutting industry of this country. The object of the new enterprise is to establish on this side of the water an extensive and thoroughly equipped factory on a larger scale than ever attempted before in this country, for handling rough and



ONE OF THE CLEAVERS.

passing it through all its various stages until it appears us a finished article ready for the market. The establishment is provided with steam power and is as complete in every sense as any to be found in Amsterdam or elsewhere.

The first operation the rough diamond undergoes is called splitting or cleaving. This is necessary in order to derive the best results for commercial purposes. The process consists first in determining the proper plan and direction for dividing the stone into parts, a proceeding that re-

razor. 'A' marked depression is Jams made, into which a sharp stiel knife is inserted. A quick and light blow divides the same into two parts. The accompanying illustration shows the cleaver about to deliver the blow.

The next process is known as that of cutting-an operation during which the stone is given its general form. In this department the new factory contains a feature of peculiar interest. It possesses a machine never before used in America and only recently adopted by a few of the largest establishments in Europe. Instead of following the old method of rubbing two stones together by hand, the stone undergoing treatment is inserted in the cluck of a lathe revolving at a high rate of speed, and is placed in contact with another diamond that is likewise fastened in an adjustable chuck held in the hand of the operator. In the course of this operation the stone receives its form and outline. This process which is also illustrated, secures a much better result than could be obtained by the old method. The powder which results from the stones rubbing against each other is used later in polishing.

The stone is then ready for the polisher. He must first determine the character be will give the diamond, and select the method of working on it. To prepare the stone, he has an assistant, technically known as a setter. The latter, having received instructions, inserts the stone in a conical mass of molten lead, allowing a



ONE OF THE CUTTERS.

isher places the stone upon his wheel, which rotates at the rate of 2,300 revolutions per minute. The illustration shows



ONE OF THE SETTERS

the polisher at work. He is in the act of examining one of the four stones which neveonstautly kept in contact with the wicel. Each setter has from five to six polishers to supply, and as each polisher has at least four diamonds in work at a time, the setter has fully twenty different stones to keep in settings. It is his duty not only to set each stone to the best advantage, but also to return it to the proper polisher. As the position of each diamond is changed in the setting from twenty-five to thirty times, an idea of the number of operations required before the stone is properly faceted may be acquired; Having arrived at a certain stage, the stone is sent back to the entiter to remove sharp edges or irregularities that may have arisen during the process of polishing. At his hands, also, the stone receives its perfectly rounded form,



## A Company Leane Mexican Pearl Fish-

SINALOA, MEN., Jan. 25.—The California Pearl Fishing Co. have leasted from the Mexican Government for sixteen years the pearl fisheries comprised between the mouth of the Colorado River and Cape San Lucas, on the cast coast of Lower California, and between the port of Maratian and the Barra de Suchiate, on the Pacific coast of the mainland, with the exception of the Ensenada de Chamela fisheries.

The consideration is the payment by the company of \$10 per ton of pearl oysters obtained in the first three years, and \$12 per ton during the remaining thirteen years.

## One Thief Smanhed the Window while the Other Held up the Clerk

SACRAMENTO, Cal., Feb. 1.—A daring robbery occurred here last evening. A clerk in H. Wachhorst's jewelry store heard one of the plate glass windows crash, and on looking up saw a man in the door covering him with a pistol. At the same instant he saw another man reach into the show window and grab two trays of fine diamonds, when both men dashed off up the street.

The proprietor of the store was at supper up-stairs and the clerk dared not leave the window exposed, as it contained several thousand dollars worth of jewelry, watches, etc. Max Amberg, across the street, saw ing him. The men ran around a corner and 150 feet more brought them to a dark alley in the rear of Chinatown, into which they ran. They both wore talse beards and it would be difficult to identify them. The diamonds atolen are valued at from \$5,000 to \$5,000, being the largest and finest in the store.

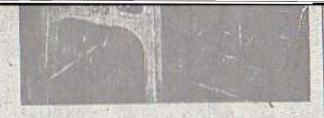
## A Philadelphia Jeweler Held, Charged with Receiving Stolen Jewelry.

PHILADELPHIA, Pa., Feb. 6.—George W. Habicht, 132 S. 8th St., has been held in \$2,000 bail on the charge of purchasing jewelry known to have been stolen. The alleged thief was George Goodman, who was placed under similar bonds.

Habicht was informed upon by William H. Garson, an employe, and John Bartlett, a fellow jeweler, at 8th and South Sis. Testimony was offered to the effect that the jewelry, part of which was the proceeds of a robbery from the residence of Director of Public Safety Berth, had been melted down, and consequently could not be identified.

#### Kansas City.

The stock of the Hart Jewelry Co., is being sold at public audition at 915 Main St. The company will move to a large store building



ONE OF THE POLISHERS.

after which it is returned to the polisher, who gives it its finishing touches. It is interesting to note that a given parcel of rough goods is kept intact throughout the entire process the product being retained as one parcel. It may start at 1,000 karats of rough goods and go through all the various operations until it appears as a parcel of gems weighing perhaps no more than 350 karats, varying in size and quality, but all derived from the original parcel. All the various departments of the establishment, are in active operation, and in the near future. it is expected, will employ over 100 men. The present force includes both foreign and American workmen. The foreigners are all Hollanders of long experience in Amslerdam establishments. It has been necessary to secure the very best class of artisans, as the American market demands the finest quality of workmanship. The establishment is now fairly under way, and all indications point to a successful execution of the plan of establishing on an extensive scale the cutting and polishing of diamonds in this city. - Jewelecal Weekly, January 18, 1883.

the window broken and ran into the street shouting, "Stop thief!" One of the men turned and took a shot at him, barely miss-



## IN CONNECTION WITH

our General Excellent Line, we beg to call the attention of the trade to Our Entirely New Line in

Trays, Dishes,
Comports,
Table Ware, &c.

-FOR-

Wedding Presents.

Specially produced for the

Spring Trade,

SURPASSING EVERYTHING HERETOFORE OFFERED.

LUDWIG, REDLICH & CO.,

8602Broadway, NEW YORK.

Frank F. Lewis, a silversmith of Lebo, Kap., was one of the bandits who robbed Mrs. Jennie Fisher's bank in Waverly, Kan., Jan. 27. During the raid a citizen was killed and Lewis is now in jail charged with murder and robbery.

Harry B, Carswell has severed his connection with Cady & Olmstead and Kersey L. Mills, who has long been with the firm has taken his position as head of the watch-repairing department. Mr. Carswell will probably open a jewelry store in Kansaa City.

The Jaccard Watch & Jewelry Co. have leased the whole second floor of the building tot. Walnut St., and have opened offices and an engraving room. New engraving presses have been bought and a doren people are now employed. The insurance has been satisfactorily adjusted and the company are now looking for a location for a retail store, when business will at once be resumed. Superintendent Pelletier of the Insurance patrol is clearing away the debris from the scene of the fire and is finding considerable salvage.

#### CUPID FIN DE SIECLE.

15 sung in ancient minstrelsy
How conquering Love of old
Boards heart to heart enduringly.
With chains of shining gold.

Still poetsaing the Love god's praise And tell his power; but pahaw! All know that in these latter days His chains are made of straw.

- Forus.

## 50 Years of Progress

ISTORICALLY speaking
1981 is an important year to the
American diamond industry because it marks the 50th anniversary
of two important organizations. For
both the Diamond Dealers Club and
the Diamond Manufacturers and
Importers Assn. of America were
founded in 1931.

A third organization which celebrates its 40th anniversary this year because it was founded in 1941 is the Diamond Trade Assn. which is essentially a trading club also. Its original membership was made up of refugees who found their way to America at the time that Hitler marched into the Low Countries of Europe.

The threat of foreign competition as posed by the disappearance of a tariff on diamonds as of Jan. 1, 1981, brought the three organizations together in 1980 in an unprecedented show of unity. It resulted in a campaign to convince the American jeweler of the advantages of buying from Americans. (See Modern Jeweler, editorial "The American Advantage," September 1980, page 51)

At that time Ira Wexner, counsel for the importers and manufacturers association said, "Since most rough diamonds come from the same source, it is unsurpassed quality, workmanship and variety of diamonds available in the U.S. that has drawn foreign buyers from Europe and the Far East to America."

He said that indicative of the growth of America's diamond industry since World War II is that one-third of all rough diamonds sold worldwide in 1979 came to the U.S. for cutting. Moreover, U.S. Department of Commerce figures indicate that in 1979 the American diamond industry exported over \$600 million in polished diamonds to such overseas distribution centers as Belgium, Israel and the Far East.

Actually, the foreign threat as visualized has not materialized. But it has given the American diamond industry cause and an opportunity to evaluate the breadth of its merchandise and service and the depth of its skill and know-how—advantages it has to offer not only the American jeweler, but also the rest of the world.

Actually diamond cutting as a trade was existent in the United States in the late 19th century. A Bostonian named Henry D. Morse is credited with being the father of the American diamond industry. He was an outstanding man in that he approached diamond cutting from a scientific standpoint. He invented a girdling machine about 1885. The best American cutters of the time were usually trained by him.

Morse had a strong artistic sense. In fact, he considered diamond cutting to be an art rather than a trade. He gave great impetus to cutting both at home and abroad. It is said that the American diamond industry owes its tradition of fine craftsmanship to him.

By 1890 there were some 12 shops known to exist in the U.S. They employed about 120 men who earned from 820 to \$50 a week. In 1892 two enterprising gentlemen named Jack Kryn and Henry Wonters decided to import labor from Europe to the U.S. It wasn't easy because immigration laws at the time were extremely restrictive—particularly in regard to labor.

But about a hundred cutters were brought to the U.S. as artists. They set up shop in Brooklyn. Soon many others were to follow and the American industry expanded rapidly. By 1907 there were estimated to be 300 cutters in the U.S. earning from \$45 to \$65 for a five and a half day, 44-hour week.

The 20th century was bringing many changes. Electricity was introduced as a driving power and a mechanical device replaced the lead dop. A new spindleless polishing table was fast gaining popularity. The method was a welcome substitute for the antiquated pock-wood bearings which had been used for centuries.

At the beginning of World War I American cutters closed their doors because the Diamond Trading Co. suspended sales of rough and banking regulations restricted normal business. But after six months the diamond business revived and began to boom.

Tremendous demand for diamonds caused prices to rise. Wages skyrocketed reaching \$125 to \$200 for a 40-hour week. Many European cutters moved to the U.S. causing America to become for the first time an important diamond cutting center.

The immediate postwar years were prosperous. Then in late 1920 a new crisis developed and employment dropped sharply. By 1923 the industry resumed but smaller shops became the rule even though a few large shops continued. All in all, the size of the industry was greatly reduced.

At the time of the Wall Street crash in 1929 there were about 45 shops in existence. Many thought the industry would never survive. In 1934 out of 260 union members only 16 were employed. By 1935 some (Continued on page D-57)

Modern Jeweler

maybe wrong because we also treat by radiation. Radiation is entirely different because it changes color. Radiation cannot be tested or seen with a loupe. But the expert can easily detect laser treatment. Radiation has to be seen with a spectroscope.

MJ: Then you really think it is a new area that the jeweler needs to be aware of? The G.LA. says that it should be revealed if a stone is laser treated.

VERSTANDIG: You mean the FTC.

The FTC came out with a ruling that a laser-treated stone or a laser-drilled stone should be revealed. As a protection for the retailer to fail to do so is not an unfair trade practice.

You see, we do not have enough material. Diamonds are scarce. They are a product of nature and eventually they will peter out. Many mines have had to be closed because there was not enough production to be profitable. It is even forecast that within 60 years certain mines will be dried up completely. We must make available whatever material we have for jewelry because the jewelry is here to stay. It's why we're lucky to find this laser process. Actually, the retailer is the one who is gaining an advantage.

MJ: We were talking about the goods that are available in America as separate from the rest of the world.

VERSTANDIG: New York and Puerto Rico, the major U.S. cutting centers, polish stones from 20 pointers up. I don't say you won't find smaller stones, but it's rare. Usually we polish from 20 pointers up to large stones. Remarkably-and I say this humbly but with pride . . . we have become the finest cutting center in the world. The presence of foreign buyers from the world over testifies to this. People even send stones from Europe to be cut here. Our cutters have the knowledge and technical know-how, and experience to perform better.

Now while we may only count roughly 2,000 cutters between the two centers, I daresay that our cutting capacity in dollars and cents surpass by 50 per cent the cutting capacity of the rest of the world.

MJ: You make good points for your industry and the organization you head. Thank you for sharing your thoughts with our readers. #

#### 50 Years

(Continued from page D-6)

activities were renewed but still on a limited scale.

It was in 1931 in severe economic times that 30 diamond manufacturers in America decided to unite and fight for the good and safety of themselves and the diamond industry in order to survive the evils of the depression. A charter was drawn up and signed by Al Abrams as president, Jonas Walvish as secretary and Simon Barend as treasurer.

Chaotic labor conditions prevailed throughout the diamond cutting centers of the world. The UDMA formulated methods and regulations to compete and survive. In cooperation with the Diamond Workers Protective Union of America an agreement was made to keep the American industry active throughout the bad depression years. Safeguards were formulated against continuous losses of merchandise by irresponsible merchants and brokers. It resulted in members being the least affected in cases of loss. In fact, with the help of the city detective bureau many of the culprits were apprehended. Through the efforts of the association's attorney the memorandum law became a protection against loss by crime.

In 1935 the association engaged the services of a young and energetic attorney, Louis Frankel, whose keen business and law ability is credited with lifting the association from a local, somewhat obscure organization to a nationally recognized trade authority.

Smeggling was rampant at the time. Frankel in cooperation with the Treasury Department brought about a number of arrests and convictions of smugglers of diamonds.

Another endeavor was the elimination of "switch" operations. "Switching" was an involved procedure in diamond transport involving the illegal use of currency. Unofficial rates of exchange permitted importation of goods into the U.S. at prices lower than the market. By introducing new controls the association was able to eliminate much of this unhealthy and unstablizing type of business.

The association at other times has also fought lowering the duty on diamonds and the repeal of the ex-

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HI 500.00 ct/ ± 0.01 ct LO 100.00 ct/ ± 0.001 ct



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cise tax, which was considered detrimental to the industry.

In a few years the original membership of 30 doubled and as economic conditions improved, the association grew stronger financially and became an accepted medium for information concerning the diamond industry.

Then came World War II with labor shortages and government regulations of rough. With Amsterdam and Antwerp eliminated, it was necessary to enlarge American production. With government assistance the apprentice system was expanded to the point that within a few years the number of diamond cutters jumped from 800 to over 2,500.

By the end of 1943 several hundred diamond polishing shops were operating in the New York City area and the workers numbered over 5,000. The association did a great deal to help its members negotiate with the cutters' unions.

A lack of rough came to be one of the problems of the industry. Louis Frankel made a trip to London where he gained the assurance of the Diamond Trading Company that rough would be made available. In fact, the DTC assured him that it placed the utmost importance to the cutting industry in the United States and that the industry would receive as liberal treatment as possible.

The general result of this contact was far-reaching because to this day the Diamond Manufacturers Assn. is recognized as the official spokesman for the diamond industry in America.

Originally the association was composed of diamond manufacturers—that is cutters or faceters. In 1949 leading diamond importers, recognizing the worth of the association, petitioned for membership. The constitution was rewritten to admit them and the name changed to Diamond Manufacturers and Importers Assn. of America Inc. The membership includes firms of good reputation engaged in both manufacturing and importing to the number of over 200 today.

Also founded in 1931 and celebrating its 50th Anniversary this year is the Diamond Dealers Club. Previous to 1931 the diamond business was located essentially in lower Manhattan on Nassau Street and Maiden Lane. Except for a few offices that diamond merchants had, the most of the trading was done on the narrow sidewalks of narrow streets in the presence of heavy traffic on the corner of John and Nassau Streets.

Not only were the crowds large but there was little or no security and the diamond people were continually harassed by the police.

So early in April, 1931, 13 diamond merchants met in the office of Kalmus and Silverstein at 95 Nassau St. to form a diamond club. The moving spirit was Harry Sigman, father of Jack Sigman, who later served for many years as president of the Diamond Dealers Club.

These 13 became the incorporators of the Diamond Dealers Club Inc., a not-for-profit membership corporation organized under the laws of the state of New York with Attorney Albert J. Lubin as the club's executive director. Lubin drew up the by-laws and called the first meeting of diamond merchants in the premises of the new club at 80 Nassau St., a fourth-floor walk-up.

The club prospered, the membership rose to 200. Larger quarters were needed so the quarters were moved to 95 Nassau St. Because of the influx of workers and expansion of the trade during World War II, in 1941 the club built quarters and moved to 36 W. 47th, ninth floor, At that time 47th street was absolutely devoid of any diamond or jewelry business. In 1956 more space was needed as the membership had grown to 1,000. The building at 30 W. 47th St. was erected and the ninth floor joined to the ninth floor of 36 W. 47th St. The tenth floor of 36 W. 47th St. was leased for Diamond Club offices.

The membership of the Diamond Dealers Club is now approximately 2,000. The quarters are crowded and the Club has obtained the building formerly occupied by Korvettes on the southeast corner of 47th St. and Fifth Avenue where a building is to be built that will house the club.

There are presently 250 applications for membership pending, each applicant having deposited an initiation fee of \$5,000. The dues are \$349 a year including benevolent dues. By contrast the first annual budget in 1931 was \$2,000. #

## Advance Proofs of the Story of

# "The Jewelry Business in Boston"

By A. B. HOAG of the Keystone Staff

The First of a Series of Articles Describing the Growth of the Jewelry Business in Important Trade Centers to Be Featured in Connection with the 50th Anniversary of *The Keystone* ... National Business Magazine of the Jewelry Industry

Watch for the Complete Story in . . . .

## The KEYSTONE—February 1932

"50 Years of Service to the Fewelry Trade"

291-4

## The Jewelry Business



The First of a Series Outlining the Growth of the Jewelry Business in Various Trade Centers

"Eddie" Russell (in the foreground) and Allan D. Sime cutting diamonds in the early days

#### By A. B. HOAG

THEY call Boston the home of the bean and the cod. It could be more justly called the home of the watch, the electric clock and the diamond, for here were made the first watches with interchangeable parts, here was developed the synchronous motor timepiece, and here the first diamonds cut in America were shaped into sparkling gems that outshone the best the Old World had produced.

Yet machine-made watches, the new vogue in clocks and domestic cut diamonds do not exhaust Boston's list of achievements in jewelrydom. Farther back there was Paul Revere and other important if less famous silversmiths. And more recently there are the host of retail, wholesale and manufacturing houses that have been reared on a foundation of integrity, perspicacity, Yankee ingenuity and appreciation of the beautiful. Of these and their forebears there is much that is interesting, and perhaps instructive, to relate—of how these firms were founded, of the kind of men behind them whose vision and energy brought success and, in short, how the jewelry trade has grown in Boston within the span of one lifetime.

But first a sketch of the scene. Boston is the business "capital" of New England. Outside salesmen for the majority of the Boston wholesale houses cover the six states, and usually a section of New York as well. Boston is less of a jewelry manufacturing center than

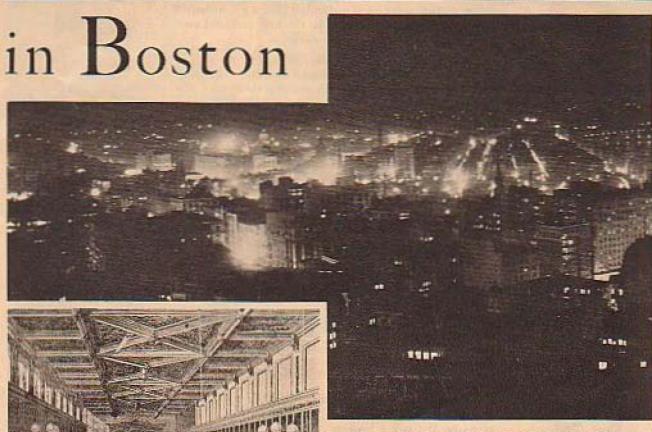


1886—A group of the "Morse Boys." Standing (left to right)
Jacob De Young, Charles M., Field, James H., Parks.
Sitting—William Clark, George Hampton, David Lindsay
and Amos Fosdick. This picture was taken on the roof of
the old Washington building where Morse's diamond
cutting workshops were located

the Providence-Attleboro area. It is mercantile rather than industrial. The value of jewelry manufactured in Boston in 1930 was \$1,065,175, while the total for Massachusetts was \$21,976,448. However, the Hub City's trade position is such that from the myriad of cities and towns in Maine, New Hampshire, Vermont and Massachusetts, and to some extent Rhode Island and Connecticut, come customers of both wholesale and retail houses. It is a rich territory and a rather compact one, both industrial and agricultural. There is reason to believe that it has been less seriously hit by the depression than most sections of the country. And in New England they laugh at stories that the section is "running down."

#### ESTABLISHING WATCHMAKING IN AMERICA

ALONG about the middle of the past century occurred two events of great importance to the jewelry trade in the United States. These were the completion of the first watches with interchangeable



A night view of Boston as it appears today

1850—The store of Jones, Ball and Pose at Summer and Washington streets—a producessor of the Shreve, Crump & Low Store of today

parts and the cutting of the first diamonds in America.

Credit for the watches is difficult to ascribe. Aaron L.

Dennison is called "the father of American watchmaking." Edward Howard is said to have produced
the first machine-made watch. Of course neither made
the first machine-made watch. Of course neither made
the first watches in America for, between 1809 and
1817, a Luther Goddard of Shrewsbury, Massachusetts, made (in distinction to manufactured) about 500
watches of the verge pattern. In 1812 a watch factory
was established in Worcester and, in 1838, watches were
marketed by James and Henry Pitkin in Hartford,
Connecticut, which Henry G. Abbott, in his work "The
Watch Factories of America" asserts were the first
machine-made watches.

Apparently, however, Dennison and Howard were the first to envision watches with interchangeable parts, constructed on the principle which Henry Ford later applied to automobile manufacture. The two were associated for a time, but they later separated, and each became the progenitor of a great industry, one the Waltham Watch Company, and the other the E. Howard Clock Company. Aaron Dennison had been educated in watchmaking. He was a dealer in watches and had visited the Spring-field, Massachusetts, armory where he was impressed by the interchangeable system in use in the ordinance there. He had an idea the same system could be applied to watches. He broached the subject to Mr. Howard who was manufacturing clocks at Roxbury and received abundant help. In 1850 the first watch model, which corresponded to the full 18-size of today, was completed. It was an 8-day watch, but this feature was quickly abandoned. The firm was then known as "The American Horologe Company" and consisted of A. L. Dennison, E. Howard and Samuel Curtis.

#### MARKETING THE FIRST WATCHES

THE first watches were placed on the market in 1853, and sold for \$40. The first hundred watches bore the name "The Warren Manufacturing Co." The name "Samuel Curtis" appeared on the next six or seven hundred and then the style was again changed to the Boston Watch Company. All this time the factory was in Roxbury, which was considered an unsuitable place for watchmaking. As a consequence, a factory was built in Waltham on the bank of the Charles river, at the present location of the company, this building being ready for occupancy in 1854.

Soon the company came on hard times. It was purchased by Royal E. Robbins and the firm of Tracy & Baker. When the latter dropped out Mr. Robbins



Fred. If Carpentur





Edward Everen Hardy



F. M. Smith,



E. H. Martin.

carried on with James Appleton. A reorganization followed, business looked up, and in 1860 a 5% dividend was declared. This is said to be the first dividend ever declared on American watchmaking.

The company's growth thereafter was rapid. A factory in Nashua was purchased and the machinery moved to Waltham, and with it came three men distinguished in the craft: N. P. Stratton, C. H. Moseley and C. Vander Woerd. Late in the nineteenth century a gold case factory was established in New York. Waltham watches became known throughout the civilized world. The railroads of India adopted Walthams, and the whole system of marketing timepieces changed.

Just as the company rose to the emergency during the Civil War and speeded up production to supply the soldiers with watches, so during the World War the Waltham Watch Company turned to making time fuses. After the latter war it reached a record of 600,000 watches annually, keeping 2800 employes, most of them highly skilled, busy. Much of the growth was under the presidency of Ezra C. Fitch, who headed the concern for forty years until the reorganization in 1923 when he was succeeded by Frederic C. Dumaine. Conover Fitch is now vice president.

EDWARD Howard, of whom we have spoken, was born in Hingham, in 1813, and apprenticed as a boy to Aaron Willard, a leading clockmaker of that period. In 1842, in company with David P. Davis, another apprentice, he started a watch and clock manufacturing business in Roxbury. In 1850 came the partnership with Dennison. These pictures of popular A small factory was built opposite Mr. Howard's shop and some English and Swiss watchmakers were put to work. However, Mr. Dennison's machinery did not prove a success, and one of Mr. Howard's men was detailed to help him. It was in 1850 that the first Howard watch was made. This famous "No. 1" is still kept on exhibition in the Mechanics building and will run perfectly whenever wound.

With the building of the Waltham factory, Dennison dropped out of the picture, but the Howard & Davis Company continued, being succeeded by the Howard Clock & Watch Company, and then by the Howard Watch & Clock Company.

In 1900 the E. Howard Clock Company succeeded ot the business but in 1905 the watch manufacturing was segregated and became known as the E. Howard Watch Works, with factory in Waltham. The E. Howard Clock Company remained at the Roxbury plant while the watch works were acquired by the Keystone Watch Case Company. In April 1930 the watch and clock works were again united as the E. Howard Clock Company, and the factories in Waltham and Roxbury again came under the same management.

Edward A. Bigelow is closely identified with the recent growth of the company. A native of Elizabeth, New Jersey, the early years of his business life were spent in New York, where he was associated with the Ladd Watch Case Company, original manufacturers of filled watch cases. Afterwards Mr. Bigelow came to Boston as New England Manager for the Courvoisier



Daniel Stroms



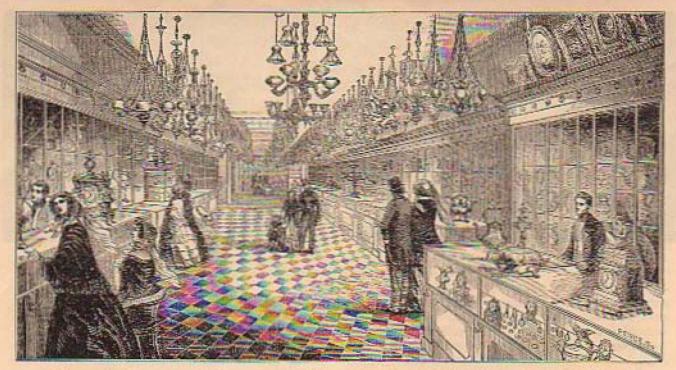
Carl D. Smith

#### HOW MANY DO YOU REMEMBER?

Hub City travelling salesmen are taken from copies of THE KEYSTONE for the early months of 1888







The areate design of the old jewelry store was in full keeping with the wordhand is a sold—merchand is which ranged from the usual jewelry items to umbrellar, canes, pretentious gas fixtures and picture frames.

This view of the Stanwood store in Boston dates back to 1850

& Wilcox Manufacturing Company. When the E. Howard Clock Company was organized in 1900 he was elected treasurer and managing director. He is now vice-president.

Raymond S. Wilder is president of the present firm and Chester L. Harris is treasurer. The other directors are Charles W. Porter, William T. Bartel and Francis B. Sears. Besides manufacturing clocks and watches, the company makes a great many small parts for precision instruments. Tower and public building clocks throughout the country bear the E. Howard name.

To go back for a moment to Mr. Dennison. When watches began to be manufactured in quantities in this country, there came a demand for the boxes in which they were packed. Mr. Dennison designed machinery for their construction, and began their manufacture. Later his brother took over the work. From these activities developed the Dennison Manufacturing Company, manufacturers of jewelry cases, tags, crepe paper and a vast number of specialties, a third world-known industry.

#### HOW THE ELECTRIC CLOCK WAS DEVELOPED

W E. have claimed the electric clock for Boston, but more exactly it was developed in Ashland, twenty-three miles from Boston, and still more exactly in a tiny laboratory designed from a deserted hencoop on the farm of Henry E. Warren. Mr. Warren has been inventing things all his life, his bent leading him to the Massachusetts Institute of Technology. He very early envisioned the electric clock, but in its development he had to devise certain gear-making machinery, and this set him off on another path for a time. Later, however, Mr. Warren went back to the clock idea, and determined to harness the peculiar properties of alternating current, using a synchronous motor. He struggled through great difficulty in finding a motor which would

both start and run true, but he finally produced a crude affair, that was then connected to the hands of a clock.

As a timekeeper the device was a failure, for it varied ten or fifteen minutes a day, but as a check on the accuracy of current alternations, it was a success. One day, after verifying his observations, Mr. Warren telephoned the Edison Power Station in Boston and tactfully informed them that the frequency was in error approximately half a cycle. A somewhat surprised Edison operator demurred, but the unusual message did being about a general rechecking of meters at the station.

#### CHECKING POWER STATION PREQUENCIES

MR. WARREN then realized that frequency accuracy was the next essential and set about developing a regulating instrument. He built one that was tested out at the L Street power station. Its principal function was to indicate directly on a single dial the exact amount of error in the integrated frequency so that the switch board operators might see whether or not the average speed of the turbines was correct. The instruments previously used showed only the instantaneous frequency and proved to be inaccurate as much as 1%, while Mr. Warren's master clock had a dependable precision of 1/500 of 1%.

Frequency control spread to all sections of the country so that, today, time service regulated by master clocks is available in about ten million homes. Warren Telechron Master Clocks are in use in more than 600 power houses. Several dozen manufacturers are now producing electric clocks, and the power companies which were first disposed to despise the small profit accruing from their use, are finding that the little current consumed by each clock provides, in the aggregate, a substantial amount.

The Telechron electric clock was perfected in 1916,



"Taking William F. Nye's Watch and Clock Oils in Mid-Ocean" was the caption of this wood engraving which appeared in THE KEYSTONE for July, 1900

and manufatturing operations were started in an old stone building in Ashland. Since that time the factory and offices have been expanded several times to reach the present area of over 80,000 square feet, and further expansions are now in view. The Warren Telechron Company has made the remarkable record of doubling its output every year, a condition which even applied to its 1930 gain over the prosperous year of 1929. The factory was running full time in October, November and December of 1930.

#### FIRST DIAMOND CUTTING IN AMERICA

THE story of diamond cutting in America is an interesting example of Yankee ingenuity and perseverance. It goes back to B. S. Pray, who, around 1850, was engaged in the African trade, and to Henry D. Morse, a man of considerable inventive and artistic genius. With Pray's financial backing, Morse brought a number of Dutch cutters from Holland and set them to work in a shop on Central Place. Simon De Young was among these artisans.

These Dutch diamond cutters conducted their work in great secrecy, refusing to take as apprentices any but Dutch boys. This irked Mr. Morse, who carefully observed their work. Then, without any announcement he undertook to instruct a group of boys and girls in the art of cutting in a Roxbury shop. When the Dutch workers atruck over some dispute, they were astonished to find their places immediately taken by skilled American workers. This marked an end to a foreign monopoly on cutting.

The Morse Diamond Cutting Company was started in 1860. Besides inventing a sort of double lathe which enables two diamonds to cut each other by attrition produced by rapidly revolving machinery, Mr. Morse invented the Morse gauge, an instrument for regulating all the angles to be cut on a stone. Both are in general use today.

After much study, Morse discovered that the proper proportion for a diamond's profile is one-third above the girdle and two-thirds below. The most desirable number of facets, including the apex (culet) and table, is fifty-eight. The superiority of Morse's cutting is due to the fact that all the light entering above the girdle is refracted so that it comes out again above the girdle. The European style of cutting, however, was aimed at producing stones of the greatest weight, with the result that much of the brilliance was lost.

"Mister Morse's boys," as those who were trained to take the place of the Dutch cutters came to be known, deserve special mention. There were Jacob De Young, now in business in the Washington building with S. Sydney De Young, his partner, James H. Parks, now vice-president of Hodgson, Kennard & Company, Inc. and Edward Russell, who left Morse in 1882 to cut for Randel, Baremore & Billings in New York City. In 1889 Mr. Russell was with Tiffany where he stayed cleven years. In 1900 he returned to Boston, where he opened a shop for E. W. Hodgson (now Hodgson, Kennard & Company), becoming a stockholder in that concern. Finally, in 1909, he formed a partnership with Allan Sime, a native of Cambridge, who learned cutting at the Humphrey shop, and who had also worked at Tiffany's. As Russell & Sime, they are located in the Jewelers' building. A few years ago they cut for Mr. Whittemore of the E. B. Horn Company, a five carat stone, giving it eighty-four facets and producing an apparently whiter stone.

Other "Morse boys" include George H. Hampton, who also went to Tiffany's; William White, David Lindsey, William Clark, George Melville, Charles Brown, Richard Fosdick and Edward Cox.

#### THE FOUNDING OF D. C. PERCIVAL & COMPANY

JUST as Mr. Morse's establishment was a training school for many in the jewelry business, so was the old firm of D. C. Percival & Company. The concern was established in 1864 by David C. Percival at 208 Washington street, being probably the oldest Boston wholesale house still in existence. Mr. Percival was born in Sandwich, Massachusetts, receiving his training with the old wholesale house of Sackett, Davis & Company. Not only was he a man of considerable business genius, but the high standards on which he insisted have continued to his descendants.

Other wholesale houses of those early days included Floyd, Pratt & Rounds and Morrill Brothers. Both have since gone out of business, although Commodore Morrill still survives.

Mr. Percival had as partners Daniel Morris and

Henry T. Salisbury. They had one small safe, and as Mr. Percival used to observe, had difficulty in keeping even that filled. The great fire of 1872 burned through the Percival store, but Mr. Percival himself hired a decrepit one-horse dray and transported most of the stock to his home on Columbus avenue. It was well that he did this for many insurance companies failed after the fire.

About this time Salisbury withdrew, and the style was changed to Percival & Morris. In 1887 the company was dissolved, Mr. Percival continuing at 392 Washington street as D. C. Percival & Company. The business grew rapidly. D. C. Percival, Jr. entered the firm in 1892 and is now president. When the Jawelers' building was creeted, Mr. Percival agreed to take the whole second floor and later the wall between this and the Washington building was cut through to enlarge the quarters. The founder died in 1913, leaving the business to his sons David C. and Lawrence F. (now treasurer). Edward E. Hardy has marked a half century with the firm, as has William E. Crocker.

Recalling the old days, Mr. Hardy says that more retailers then came to Boston to buy their stocks and fewer outside salesmen were employed by wholesale houses. Retailers today probably receive five times as many visits from salesmen as they did fifty years ago.

Another concern with a long history is that of Paul-McCourt Company, Inc., successors to A. Paul & Company. This company was founded in 1872 by Andrew Paul. About 1895 Paul took into partnership Charles W. Finlay, who had been with him since 1872. Alfred Paul succeeded Mr. Finlay. Mr. Paul died in 1928. The business was continued under several managements until July 1, 1931, when J. F. McCourt became president and treasurer. Mr. McCourt was with the Star Watch Case Company for twenty-six years and has been prominently identified with the wholesale trade since 1891.

Still another old name is that of Norling & Bloom Company, founded in 1865 and considered to be the oldest manufacturing jewelry business in New England. Arthur S. Kelley, who is president and treasurer had been with D. C. Percival & Company from 1896 to 1913 when he purchased the Norling & Bloom business. Being more interested in precious stones, he has devoted his greatest efforts to developing the diamond business, but has also given attention to the manufacture of platinum goods.

Another of the D. C. Percival & Company "boys" is Henry R. Arnold, who started with them as a boy in 1889. Later, he entered business for himself in the Washington building traveling and selling personally all over New England. He is a past vice-president of the National Wholesalers' Association, one of the first members of the National Publicity Committee, and was a leading spirit in the formation of the Massachusetts and Rhode Island Retail Jewelers' Association.

Another old firm is that of F. E. Harwood, Inc., 387
Washington street, successors to Harwood Brothers.
Charles and Willard Harwood started business in 1859
at 247 Washington street, later moving to 26 Bromfield
street, and then to 386 Washington street. Charles
Harwood died in 1902 and Willard Harwood in 1910
and, in 1911, the business was taken over by two sons,
F. E. and H. A. Harwood.

Sanger & Company, wholesale jewelers of the Washington building, was developed by Eugene Sanger who had been with Harwood Brothers for forty years; H. F. Weiler, who had served twenty years with them and Thomas Wilson, a Harwood man of eight years' standing. These three veterans bunded together as Sanger & Company in 1922, and have made steady progress.

Out of another old wholesale house. Morrill Brothers—came the firm of E. H. Saxton Company. Charles F., Alvin T. Morrill and Irving Smith formed this once well-known firm which flourished in the 80's and 90's in the Marlborough building where the Washington building now stands. Charles F. Morrill, commodore of the Fast Boston yacht club, we have already mentioned as still living. The Morrill business was purchased in 1905 by Mr. Saxton, who had been associated with it foe a number of years.

Continuing the list of the old-timers, we come to Kettell, Blake & Read, Inc., a wholesale house specializing in Waltham watches, clocks and Masonic emblems. J. V. Kettell founded this business in 1858, occupying at the corner of Washington and Milk streets half a store with the Waltham Watch Company, where it was continued until 1872. After two years on West street, the business was moved to 376 Washington street, where it continued until its removal to the Washington building. In 1878 James S. Blake, who had been with Crosby, Morse & Foss (thus making him another of the "Morse boys"), went with Mr. Kettell and became a partner in 1883. Mr. Kettell died in 1895 and his interest was bought by Mr. Blake, who carried on the business until his death in 1928. Mr. Elmer C. Read became associated with the concern in 1897 and entered into partnership in 1916. The business was incorporated in 1925, and Mr. Read is now sole owner.

The Ripley Howland Manufacturing Company goes back to 1867, when Ripley Howland & Company was formed by the merging of Howland & Bates and Ripley & Crosby. Following the death of Mr. Howland in 1882, the present corporation was formed by the sorviving partners, Mr. Ripley, Mr. Crosby and Mr. Bates, who continued until the death of Mr. Ripley and the withdrawal of Mr. Bates in 1906. The concern was then taken over by H. B. Burnham and C. G. Perry who continued until 1929 when Mr. Burnham died. It is now headed by C. G. Perry, president, and F. W. Hawkes, vice-president.

This firm is widely known for the rings and diamond mountings it produces. It is now located in the Province building.

The house of Nelson H. Brown, wholesale dealers in clocks, was established at 75 Hawley street in 1877. Mr. Brown had previously been employed by Harwood Brothers. When he died in 1891, Mrs. Brown assumed the management and still continues in charge. Reginald Brown, a son, entered the business in 1898. The concern is now at 70 Franklin street.

The firm of Harkins & Murphy, dealers in jewelers' supplies, although comparatively young, carries on a considerable business. It was formed in 1914 by Joseph V. Harkins, J. M. Kirby and Redmond J. Murphy. Mr. Kirby left in 1915 to establish his own business.

Fifty-five years ago a young lad who had come to Boston four years previously from Tunbridge, Vermont, might be encountered in Boston dry goods stores carrying a bag. He was calling on the trade with a line of jewelry, and the bag was his office and store. It was a very important bag, for from it grew one of the largest wholesale jewelry businesses in Boston and one of the leading retail stores in New England.

The man was Marcel N. Smith, president of Smith Patterson Company, who can count over half a century of active guidance of a rapidly developing business.

Mr. Smith's first real office was desk room at 546 Washington street. Later he moved to 46 Summer street, to share an office with Henry W. Patterson who was engaged in wholesaling jewelry to the provinces. In 1885 the two men joined forces and soon moved to the present site at 52-56 Washington street at the corner of Arch.

Both a wholesale and retail business was done, extreme care being taken to see that trade discounts were given only to those entitled to receive them. By 1905 the business had grown to such an extent that larger quarters were needed, and the wholesale business, with Carl D. Smith, brother of Marcel, in charge, was moved to the second floor. The main floor was lowered to the street level and renovated for the retail store, and the basement prepared for the Art Room (now the Colonial Room).

The Canadian business started by Mr. Patterson was also growing all this time, and in addition to the wholesale trade a factory was started. Mr. Patterson died in 1926, the business in Montreal (Smith Patterson Company of Canada, Ltd.) being continued by Frank Patterson, a nephew. Nelson H. Smith, is vice-president of this company.

The wholesale business under Carl D. Smith prospered until three years ago when he died and the work of liquidating this branch was given to Howard A. Martin, who for thirty years, had ably served the firm.

The wholesale business was, however, not gone. Mr. Martin, together with Walter Forbes, an employe of twenty-five years standing, formed the Martin Forbes Company, designated as successors to the Smith Patterson wholesale department, keeping all the valuable franchises of the former, most of the old employes, the old quarters and, above all, the same high business principles. The Martin-Forbes company has also retained five men on the road, and has kept the old clientele, specializing in quality jewelry.

Four other former representatives of the Smith Patterson Company set up a business at 387 Washington street, known as the United Jewelry company and dealing in domestic and imported jewelry and novelties. They are A. V. Johnson, A. F. Reed, C. H. Ramsdell and C. L. Quimby.

Meantime the retail store of the Smith Patterson Company has continued to grow. M. N. Smith, his years resting but lightly on him, remains in active charge as president. Nelson H. Smith is vice-president and treasurer. James Kingman, who for years has been a leader in the trade, is secretary and second vice-president. Aubrey G. Gilmore is clerk of the corporation and J. Victor Day, assistant treasurer.

M. S. Page & Company, still another old firm, was founded as a retail business in 1858 by Moses S. Page, a native of Haverhill, New Hampshire, who came to Boston in 1856 at eighteen years of age with but \$20 in his pocket. Two years later he had started with a partner at I Salem street as Felch & Page. Mr. Felch withdrew, and Mr. Page leased the entire flatiron shaped building, thus insuring a reasonable rent on his store. Mr. Page died in 1917, his younger son, Harold, succeeding to the business. Harold finally sold out to one Ransome, who had been a life-long business associate of the elder Page and started a wholesale diamond and jewelry business in the Jewelers' building where he is today. His brother Edward S., formerly a lawyer, is with him.

Moses Page was an extremely energetic man who had a great many irons in the fire. He often made considerable money by attending auctions and through other outside pursuits. W. A. Smith used to say that "Mose" Page could figure in his head faster than the average man could with a pencil.

Charles May & Company, dealers in jewelers' supplies was founded in 1886 by Charles May at 386 Washington street. He later moved to Bromfield street and, in 1912, occupied space in the Jewelers' building. The firm was incorporated at the time of its last move and seven years later Charles retired. William May, the present president, came to the firm in 1898. W. Stanley Campbell is treasurer.

Ben Wyman, stone dealer and lapidary in 'the Jewelers' building, is credited with having sold more opals than anyone in the world. He was formerly with Treibs Brothers in New York, becoming their Providence representative. He started out for himself in Providence in 1906, moving to Boston in 1913.

Among the larger wholesale firms is that of I. Alberta Sons, Inc., which was founded in 1897 by Isase Alberts. Mr. Isase died in 1913. Mrs. Annie Alberts then took charge and, in 1914, the firm was incorporated. The following are the sons: Nathan, who joined the firm in 1912; Emanuel V., in 1914; Harold, in 1919, and Sydney in 1927. Mrs. Alberts is president and treasurer. The firm has spacious offices in the Jewelers' building.

And now we come to two other well-known names in the Boston diamond trade—Harris and Lawton. Frederick M. Harris, one of the old time diamond experts, was born at Stoughton in 1848. In 1871 he was travelling for Col. James M. Longstreet and later for Sackett

Continued—The story of the Jewelry Business in Boston as it will appear in The Keystone for February, 1932, contains several more pages which cannot be included here for lack of space. Also, there will be a number of additional illustrations of widespread interest to jewelers old and new.

### Pioneers in the Boston Diamond Trade

A Backward Glance at Some of the Men Who Were Prominent in the Industry Years Ago, and a Word About Conditions at That Time. Some of the Celebrities Who Were Frequent Customers

() NE man once gave as his definition of Long Wharf. Then he rented a little store what the size of a city should be: "Not too large to have a first citizen." Most of our big American cities today have outgrown the possibility of using this definition. There is more than one leading citizen in Boston, but if you divided the city up into departments-say the wool trade, the leather trade, the printing trade and so on-you would find a leading citizen in each department. And when you came to the jewelry

in the old Museum building and started in trading in Waltham watches which, as he remarked, sold like hot cakes. One day as he was working in his store. Daniel F. Wickham, an old time New York diamond merchant, with a store in Maiden Lanc, came in and said to him;

"Why don't you sell diamonds and other precious stones?

After saying this, Mr. Wickham produced some stones from a wallet and left them with Mr. Remick, saying that he would trust him with them. Mr. Remick sold the stones immediately and decided that he would go into the jewelry business and give up his watches.

His store was at first located at one end of the Museum building, away from the door. But it was moved to a place in close proximity to the entrance, and the crowds passing in and out of the famous theatre could not help but see his windows. His safe stood just inside the window, and he always had a few rough stones in sight. His store was small. He had no clerks but conducted the entire business his self. It was hard work but Mr. Remick loved the stones and was interested in all his customers. Business in those days was fur more of a personal matter, with the storebeeper coming into contact with all prospective buyers and not hidden in a sanctum sanctorum that only the anointed could approach. Opposite his battered desk chair stood another equally battered one, but comfortable and made for a guest. Here customers would come and sit down for a that with Mr. Remick-to talk over politics, or to discuss the stone market or to bey any new stones that he might have. It was a penial sort of business, conducted as one man to another, not through the medium of clerks. Mr. Remick dealt only in uncut stones, but he advised people on how to cut them and where to have the cutting done.

The crowds filed into the Museum past his window, so that anything that he put there would probably be seen. Mr. Remiele was in the babit of insuing eards that told of his husiness, for advertising in those days was not on the scale that it is today. One of his first cards announced that his was "the only place in New England where the entire business is dealing in precious stones." When he went to Europe, as he often did in the latter part of his business career, he that up his store and put up a sign: "Gone to Europe to purchase Precious Stones, Back on or about September First." When he opened his store once more, there was sure to be a crowd of people waiting to see his latest supply of gems that were on sale. And the crowd that filed into his shop was as distinguished a company as one would meet with anywhere,

First of all, there was Henry Ward Beecher. The emineuet man was devoted to colors, and particularly to colors in precious stones. He bought opuls, when he could afford them, and kept them in a bottle, delighting in the variety of colors and shades they showed. Mr. Remick tells an interest-ing story of a ring that Henry Ward Beecher bought of him. It was a beautiful



JOHN A. REMICK, GRAND OLD MAN OF BEADMOND DEALERS

trade, you would find that John A. Remick was the 'leading citizen' in that particular branch; Mr. Remick has held that position for many long years. He has been out of the business now for something over a score of years, but he still ectains an interest in Jewelry. He is no longer a young manhe is 92 now-but he is young in his enthuslasm and his interest in anything that has to do with the work that he did for so long.

Mr. Remick now lives in his pleasant house on Marlhorough St. He is a great grandfather. When the writer went to talk with him on his early experiences in the trade, he was most cordial and agreeable. He is a short man, with a charming smile and pleasant air. His face is lined-not with care, for we doubt if he ever had many cares-but with age. He is a bit deaf, but, despite that, is as hale and cheery as when he sold diamonds to Ellen Terry or talked with Joe Jefferson.

Mr. Remick was born in Newburyport, and when he first came to Boston he worked on



HENRY P. MORSE

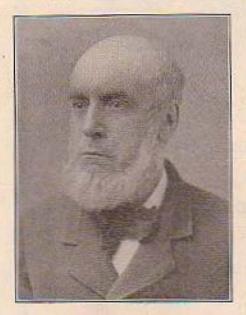
opal, placed in a simple setting. Mr. Beecher, as he always did, never wore the ring when in the pulpit but had it, with others, in his pocket. At one time, Ellen Terry met Mr. Beecher and he invited her to lunch with him and his wife. Just before luncheon, Mr. Beecher put the opal ring on his finger and Miss Terry exclaimed at its beauty. Mr. Beecher said that he would be delighted to have her have it, and gave it to her immediately. Some years afterwards, when Miss Terry was in Boston, Mr. Remick, who had heard the story, asked her about the ring. She thought a moment and said:

"I gave it to Sir Henry Irving when be was knighted." Mr. Remick says that after Sir Henry's death he asked the heirs about the ring but never found any trace of it.

Henry Wadsworth Longfellow, was another distinguished customer who used to come in to purchase as well as to chat and admire. Mr. Longfellow, according to Mr. Remick, was particularly food of amethysts. He loved the deep royal purple color.

Joseph Jefferson, James T. Fields, William Warren, Annie Clark, William Seymour, Jack Mason, Celia Thaxter, and William Morris Hust were all very good friends of Mr. Remick's as well as customers.

There are many things connected with a business of the kind that Mr. Remick's was that come to light only when you can get such a man in a reminiscent mood. For instance, Mr. Remick told of the introduction



SIMON DE YOUNG

of the moonstone into Boston. He found that it was not considered a lucky stone and sent cards out all over the State announcing that he had found it was a lucky stone and that he had some of them for sale. He met with opposition to opals, which were considered most unlucky. He



TOHN THAT BOX

couldn't understand why and was talking the matter over with William Morris Hunt one day. Hunt declared that it was a foolish idea, and an eminent geologist, Bayard Taylor, concurred in Hunt's opinion. Taylor found a translation of some Arabic legend which read something like this: "Long years ago there lived a man who had a ring, opal the stone which flashed and gleaned, and brought good leak to those who were such a ring." This is a very poor reproduction of the verse which was delicately and delightfully worded. Mr. Remick had this printed on a card and sent around to some of his customers and he put the card in his window. This attracted considerable attention and one day a young girl, who, as Mr. Remick said, "wanted to be married the worst way," was in his office. He had known her for some time, thought her extremely delightful, and, as they were old friends, she asked him for some lucky stone. He presented her with an opal and within the year she was married.

From somewhere in the neighborhood of 1870 until 1903 Mr. Remick kept his store in the old Museum building. Everyone knew him and he had customers all over New England. Almost every year, for at

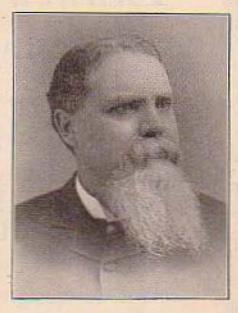


MES CARRIE A. BUNNIAN

least three months, he went away to Europe in quest of rough stones to bring back. In 1503, plans were gotten under way to tear down the building, and Mr. Remick was approached by the new owners. They offered him space under the proposed plans, the same space, to all intents and purposes, that he had long had in the Museum building. But when the matter of price was spoken of, the new owners indicated a figure something over three times what he had been paying. Mr. Remick decided that his husiness career might as well be closed in 1903 as any other year (he was then almost 70), so he refused the offer and decided to retire. Certainly, if anyone ever deserved a rest, Mr. Remick did, for single handed for over 30 years be had conducted a most proftable but exacting trade. Thus Beston's earliest and best known specialist in precisos penu coded a long curves of service.

There is no more firing way to close this short summary of a splendid curver than to quote what Charles W. Eliot once said to Mr. Remick, his friend and contemporary. They were crossing the ocean together once, and the famous educator turned to his companion and said: "The semunit of any man's ambition is to attain the respect and esteem of his neighbors. You certainly have that." John A. Remick is still the "first citizen" of the diamond world.

Across the stage of memory there move figures—one visualizes them in the Moom of youth and ambition—figures still dear to those whose hair is tinged with silver or gray. Such mines as Benjamin S. Pray, Charles G. Brown, James H. Parks, Goorge



BENJAMIN S. PRAY

P. Hampton, David J. Lindsay, Miss Carrie-A. Burnham, John Tillson, George S. Melville, William Clarke and Simon de Young naturally occur to the mind. Most of them are here today, leaders in the diamond industry.

Early in 1860, Morse and Pray started



OFFICE S. MELVILLE

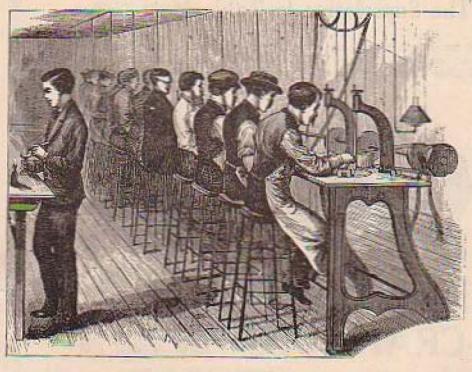
the Morse Diamond Cutting Co., the first establishment of its kind in America. The workshop was in Central place, a lane that made in from Washington St., between the Jordan Marsh building and the Shuman corner. "Billy" Parks had a famous tavern, then, in the same lane. The artual cutting and polishing had to be done by Hollanders,

at first. Simon DeYoung, Van Volen, Cohano and Kriser were their names, and Keiser is said to have been the leading man. Descendants of this early group of Dutchmen are in the business in Boston today,

But Keiser refused to teach American ap-

girdle and perfect proble proportion, loses nothing from its apparent weight.

The European cutters finally adopted the Boston cut. The finest brilliants are still fashioned that way, but individual stones of



DIAMOND POLISHERS AT WORK IN THE OLD FACTORY OF HEMRY MORSE

prentices, so Mr. Morse, who was constantly building, rebuilding and perfecting his irou and steel machinery, and who had become singularly expert at cutting and polishing as well, started a shop out in Roadury. In it he had 23 young women and men. Charles M. Field, who was foreman of the Roxbury place, is 96 now and lives at Melrose. Others of "Mr. Morse's boys" are living.

The firm was next known as Crosby, Morse & Foss, but in 1875 it was dissolved and Mr. Morse opened a place on the fourth or fifth floor of the old Washington building. 383 Washington St. A year before his death be took an old partner again at 120 Tremon. St. The style was H. D. Morse & C. M.

Besides inventing a sort of double lathe, which enables two diamonds to cut each other by attrition produced by rapidly revolving machinery, Mr. Morse invented the Morse gauge, an instrument for regulating all the angles to be cut on a stone. Both of these are in general use today, the lathe superseding almost entirely the old practice of rementing the diamond to be cut into the end of a stick and rubbing it with another dismond of inferior quality, called bort, that is fastened into a stick in the same way.

After much study, Mr. Morse discovered that the proper proportion for a diamond's profile is one-third above the girdle and twothird; below. The most desirable number of facets, including the apex (culet) and table, is 58. The acknowledged superiority of his cutting is due to the fact that all the light entering above the girdle is refracted so that it comes out again above the girdle. If he had stuck to the deep, old-style cut the incoming rays would have been lost. The large size, have been turned out with 84 and 76 facets and with admirable results. Then, too, there is the latest fad, the Baguette, or

Morse system, with its round outline of are lacking. Apparently Henry D. Morse got all the quality it was possible to get out of a diamond. His system, the Morse cut, seems to be established for all times.

The old style of Dutch cutting, where little or no attention was paid to proportion, brilliance or shape, suffered a loss of 40 per cent from the weight of the stone in the rough. The Morse method loses 53 to 58 per cent, but the value of the gent is enhunced 25 per cent.

W. A. Smith, along with Mr. Morse, will be remembered as one of the pioneers in the dismond trade. He sold out his lewelry and diamond store at 16 Brattle square in the 70s and removed to an office just over the entrance steps to the old Studio building, 110 Tremont St. Here he emburked as a specialist in diamends and precious stones. At this location, and at the old Washington building, 383 Washington St., he imported. sold and designed the mounting of fine gems until 1896.

Mr. Smith was the youngest of a large family. He was born on the shores of Fresh Pend, in what was then Belmont, but s now a part of Cambridge. His early days were spent at the carpenter's trade and at market gardening. His first business venture was with a partner down in Boston's market district. They dealt in butter, cheese and eggs.

The partnership became distanteful. After several months, he was glad to withdraw with the loss of the \$700 he had put in. III health ensued and a consequent inability to work. With nearly the last dollar in his somession he bought a damaged watch. He took it to his modest rooms, at the corner of Grove and Revery Sts., Beacon Hill, andmade it go! The little mahogany shelf, on which he taught himself watch requiring, is



FIVE OF THE ORIGINAL DIAMOND CUTTERS IN THE MORSE PACTORY Left to Right George Hampton, William Clark, James H. Parks, David Lindsay, Jacob de Young,

step cut, and the emerald cut stone. The Baguette has a polished girdle whose outline is rectangular, or square. In either of these

in existence now. This was his beginning in the jewelry and diamond trade.

More and still more watches were bought, povelty cuttings the brilliance, life and fire repaired and sold by the semi-invalid. He prospered and his perseverance was socioed by one Jasper Kelly, who kept in Brattle square. As Smith grew well, Kelly became action and in a short time nearly helpless. It was rightstatism, or some kindred ill. Kelly put Smith in his store and he finally bought it. Mr. Smith amassed a fortune in the little, low-studded place.

During his long years in the diamond business. Mr. Smith counted many noted people as his customers and friends. The Rev. Henry Ward Beecher always called when in town, his niece, the wife of the Rev. Mr. Allen, was a customer, as were Governor Gaston, Speaker Noyes, Speaker Barrett, City Treasurer Turner, Montrose G. Allen, William Sobier, Karl Zerrahn, Payson Tucker, Marcellus Eldredge, Frank Jones. Mrs. Thomas Barnes, Mrs. Thomas Mack, Billy Parks, Frank Mayo, the actor, Harry W. French, the traveler and lecturer, Chief Watts, Andy Houghton, Impactor Skelton, B. A. Atkinson, Leopold and Godfrey Murse, Gordon McKay, Mrs. Effe Carming, who wrote "Rock-a-Bye Baby" and handreds of well-known people of that day,

Mr. Smith designed and furnished the stones for the high diamend scarl-pin that was presented to Prolessor Bartholomew of the Equine Paradox. This was in the form of a horseshoe with the whip at the bottom. The Equine Paradox (educated horses) was playing at the old Windsor Theater at the time.

The so-called Record Diamond was furnished by Mr. Smith. This was a large stone offered by the Boston Econing Record to the most popular hotel clerk in the city. The readers voted by writing their favorite's name on a coupon that could be cut from each copy of the paper for a given length-bit time. Fred Jones, of the Falmonth, was the

During the early 80 s, the house of W. A. Smith probably handled more diamonals, wholesale and retail, than any other in Boston. Its founder prided himself on the fallness and variety of his stock, and reasonable prices and a square deal was his motto then and throughout the 44 years that he was in the diamond trade.

Mr. Smith was a retiring, home-loving man, but was fond of the opera and of high-class dramatic art. In this younger days, however, he was very expert as a fancy skater. He used to skate in company with Professor Agassiz on Fresh Pond. Like many other jewelers, he knew the lure of rod and gun.

Mr. Pike is with us today. His 76 years have silvered the jet black hair and mustache and a slight deafness hampers him to a trifling extent. Apart from that, he is the same tall, straight, spare, alert, clear-headed man who worked so diligently that he was enabled to retire when he was 50 years old.

Precision, extreme neatness and a womlerful facility in expressing himself well are endowncuts of this very able man. He is a natural born artist and designer and was a master mechanic at his trade. Few profeasional seamen are his equal at winning races in a pleasure yacht, and he has been a life-long devotee of the rod and gun. He is so gifted at whistling that it is a treat to listen to him. With apparently no effort he can trill like a bird.

"Charlie," as Mr. Brooks affectionately

called him, was born on Friend St., but lived a great energy years at Jeffries Point. He was commodure of the Jeffries Yacht Club while living there.

Mr. Pike served seven years in the shop of Ripley, Crosby & Peabody in the old Washington building. The pay was \$1 a week with an increase of a dollar a week each year. After becoming a journeyman be worked for Thomas Clarkson and then for Mr. Brooms, who made him a partner after the first year.

About 30 years ago Mr. Pike bought a fine home at Winthrop, where he has his own private wharf and landing stage at the rear. His hobby is to sail, fish and shoot in the



CHARLES & HAVEN

company of his lossom friend, Ambrose A. Marrin, a retired healder of pilot bouts and pachts

It is said there are today but four diamondcutting shops in New England, and that they are in Boston. One of the best known of these is that operated by Russell & Sime.

"Eddie" Russell, as he is called by the trade, was been at Brooklyn, N. Y., in 1862. He came to Boston and became "one of the Henry D. Morse's boys," In '82, he was cutting for Randel, Baremore & Billings in Maiden Lane. In '89 for Tiffany, where he stayed II years. While with them, he demonstrated at the Chicago World's Fair.

The year 1900 saw him back at Boston where he opened a shop for E. W. Hodgson (now Hogdson, Kennard & Co., Inc.), he being a stockholder in the concern. In 1909 Mr. Russell sold his stock and formed a partnership with Alica D. Sime. They are on the sixth floor of the Jeweler's building, where, besides curring repairing and polishing they keep a fine stock of diamonds for sale. The partners do the actual work themselves.

Here are some of the names of men who learned diamond-cutting under the great Henry D. Morse: Jake De Young, now living and in business on the seventh floor of the new Washington building: Charles M. Field, living at Melrese; James H. Parks, vice-president of Hodgson, Kennard & Co., Inc.; George H. Hampton, at Tiffany's:

William White, David Lindsey, William Clark, George Melville, Charles Brown, Richard Foodick and Edward Cox.

In closing, it might be well to state that another Boston man contributed an invention that has lightened the lapidary's work. One Passenure got up a machine that will cut semi-procious stones. He went to New York, started the cutting houses of Passenore & Zell, and, later, the American Gem Cutting Company.

#### When the Jeweler Gives His Son a Job

MOST every jeweler who is married, usually in time has a son or daughter who grows to manhood or womanhood, After the high school then comes college and after the college what? That is a question that has caused a lot of trouble-not only for the jeweler but for other people in business as well. In this instance we are interested solely in the jeweler. Children who have grown to adult munhood or womanhood very often want to follow in the footsteps of their lather. This is more age to be the case of the boy although there are many instances where the daughter desires to enter the business. Some of these young people soon fit in well and become valuable assets to the father's luniness. But there are many other instances where the opposite situation has developed.

This is very often the case where the father is associated with an active and aggressive partner. Many youngsters just out of college and particularly if they have taken a course in business administration. develop a keen sense of their own importance and ability. They find many things being done by the old firm that does not exactly measure up to the theories they were thought in college. And no matter whether these old ways have been successful money extlets or not, the youngster often starts in to readjust things to his own liking-if any authority has been given him at all. And right here is where the clash comes and many times it has resulted in the breaking up of an old and successfully established business. The father usually sides with the boy and the partner almost invariably takes the opposite position. And then the trouble begins. Once friction of this kind is started, it is like fire or a contagion that spreads with great rapidity. It is difficult to combut even if it gets a little momentum. No house can stand that is divided against itself.

Where a partnership exists it is far better to keep the sons or daughters out of the store—unless they are exceptional youngsters or else take them in on the same hasis as and any other employe. No favors should be granted and advancement made only on merit.

It is a said thing to see a fine old husiness split up simply because friction has started from the officiousness of a son or daughter who has an idea her or she is going to revolutionize things. A jeweler, specially if he has a partner, should consider carefully every possible situation, before he admits a near relative into his store. Detroit Correspondent.













